# LAMPIRAN

Lampiran 01. Data Prestasi Belajar Matematika Siswa Pada Permainan BoTySeGa

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | Achieve- |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment |
| 3 | 1 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 52 | 54 | 36 | 33 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 71 | 57 | 116 | 25 | 9 | 94 | 206 | 152 | 48 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 |
| 5 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 20 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6 | 4 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 41 | 23 | 142 | 111 | 33 | 25 | 219 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 44 | 47 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8 | 6 | 2 | 0 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 25 | 40 | 6 | 94 | 21 | 48 | 193 | 142 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 39 | 278 | 213 | 83 | 54 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| 10 | 8 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 33 | 14 | 82 | 69 | 33 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 11 | 9 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 54 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | 10 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 41 | 4 | 280 | 34 | 27 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 13 | 11 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 43 | 110 | 84 | 8 | 25 | 9 | 42 | 100 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| 14 | 12 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 108 | 105 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 15 | 13 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | 59 | 23 | 20 | 17 | 10 | 56 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 16 | 14 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 8 | 14 | 19 | 2 | 12 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17 | 15 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 15 | 29 | 32 | 38 | 34 | 72 | 125 | 112 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 18 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 139 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 17 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 43 | 113 | 59 | 95 | 20 | 32 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 20 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 38 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 21 | 19 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 39 | 138 | 64 | 11 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 22 | 20 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 28 | 39 | 108 | 143 | 11 | 14 | 65 | 100 | 125 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 |
| 23 | 21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 32 | 11 | 13 | 34 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 24 | 22 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 7 | 3 | 49 | 18 | 26 | 50 | 57 | 33 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 25 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 75 | 65 | 85 | 100 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| 26 | 24 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 20 | 233 | 13 | 308 | 102 | 92 | 192 | 165 | 157 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 4 |
| 27 | 25 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 21 | 39 | 11 | 5 | 6 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 28 | 26 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 15 | 16 | 46 | 136 | 54 | 52 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 29 | 27 | 0 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 30 | 9 | 21 | 9 | 35 | 192 | 103 | 108 | 22 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 |
| 30 | 28 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 4 | 7 | 21 | 69 | 31 | 38 | 65 | 43 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 31 | 29 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 89 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 30 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 7 | 5 | 4 | 8 | 4 | 15 | 66 | 40 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 33 | 31 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 1 | 10 | 51 | 76 | 28 | 54 | 42 | 42 | 31 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 34 | 32 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 67 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | 32 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 67 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 35 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 36 | 34 | 2 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 77 | 6 | 172 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 37 | 35 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 25 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 38 | 36 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 0 | 41 | 8 | 101 | 10 | 22 | 160 | 271 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 39 | 37 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 11 | 17 | 15 | 11 | 4 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 40 | 38 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 11 | 13 | 7 | 104 | 42 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 41 | 39 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 24 | 14 | 26 | 62 | 57 | 72 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 42 | 40 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 74 | 85 | 11 | 30 | 64 | 76 | 63 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| 43 | 41 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | 16 | 16 | 47 | 27 | 7 | 78 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 44 | 42 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 110 | 114 | 60 | 10 | 98 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 45 | 43 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 33 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 46 | 44 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 118 | 29 | 11 | 105 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 47 | 45 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 14 | 11 | 55 | 49 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 48 | 46 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 40 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 49 | 47 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 46 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 48 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 82 | 41 | 69 | 26 | 178 | 45 | 50 | 65 | 110 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 |
| 51 | 49 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 38 | 102 | 21 | 46 | 111 | 35 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 52 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 66 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 53 | 51 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 119 | 9 | 24 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 54 | 52 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 3 | 60 | 7 | 26 | 50 | 35 | 80 | 100 | 209 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 55 | 53 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 123 | 4 | 183 | 84 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 56 | 54 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 136 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | 55 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 114 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 58 | 56 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 42 | 8 | 34 | 91 | 139 | 82 | 162 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 59 | 57 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 3 | 18 | 38 | 25 | 33 | 9 | 15 | 62 | 230 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| 60 | 58 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 61 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 174 | 175 | 143 | 16 | 62 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 62 | 60 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 15 | 3 | 40 | 85 | 10 | 23 | 12 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 63 | 61 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 7 | 48 | 45 | 19 | 69 | 44 | 38 | 47 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 64 | 62 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 15 | 59 | 140 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 65 | 63 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 100 | 76 | 17 | 14 | 56 | 57 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 66 | 64 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 0 | 1 | 2 | 5 | 148 | 295 | 60 | 68 | 81 | 103 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 67 | 65 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 2 | 3 | 31 | 38 | 10 | 25 | 8 | 7 | 36 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 68 | 66 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 3 | 13 | 7 | 6 | 34 | 13 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 69 | 67 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 2 | 69 | 46 | 31 | 468 | 11 | 169 | 160 | 50 | 100 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 |
| 70 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 39 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 71 | 69 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 23 | 77 | 23 | 37 | 53 | 21 | 44 | 113 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 72 | 70 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 50 | 154 | 47 | 228 | 56 | 85 | 48 | 42 | 27 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| 73 | 71 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 83 | 24 | 6 | 8 | 12 | 17 | 63 | 58 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 74 | 72 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 | 110 | 105 | 489 | 79 | 11 | 100 | 65 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 75 | 73 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 210 | 98 | 48 | 76 | 56 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 76 | 74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 159 | 49 | 51 | 8 | 12 | 332 | 150 | 36 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 77 | 75 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 2 | 11 | 19 | 35 | 20 | 25 | 65 | 97 | 100 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 |
| 78 | 76 | 0 | 1 | 2 | 3 | 0 | 2 | 3 | 3 | 3 | 23 | 19 | 19 | 5 | 7 | 9 | 92 | 69 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 79 | 77 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 3 | 8 | 17 | 4 | 10 | 13 | 10 | 21 | 24 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 |
| 80 | 78 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 42 | 54 | 87 | 83 | 34 | 264 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| 81 | 79 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 55 | 48 | 93 | 40 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 82 | 80 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 5 | 53 | 38 | 38 | 142 | 18 | 120 | 67 | 74 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 |
| 83 | 81 | 2 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 3 | 17 | 87 | 180 | 450 | 72 | 108 | 100 | 97 | 105 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 84 | 82 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 58 | 93 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 85 | 83 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 39 | 44 | 62 | 7 | 63 | 37 | 79 | 148 | 48 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 |
| 86 | 84 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 18 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87 | 85 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 1 | 103 | 22 | 262 | 16 | 87 | 61 | 282 | 296 | 30 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 3 |

Lampiran 02. Klasifikasi Awal Variabel Respon (Achievement/Skor Tes Prestasi Belajar Matematika Siswa)

| Student | Achievement | Kelas_achieve | Kategori |
|---|---|---|---|
| 1 | 1 | 1 | Kurang |
| 2 | 4 | 2 | Cukup |
| 3 | 1 | 1 | Kurang |
| 4 | 4 | 2 | Cukup |
| 5 | 1 | 1 | Kurang |
| 6 | 6 | 2 | Cukup |
| 7 | 2 | 1 | Kurang |
| 8 | 2 | 1 | Kurang |
| 9 | 1 | 1 | Kurang |
| 10 | 2 | 1 | Kurang |
| 11 | 6 | 2 | Cukup |
| 12 | 5 | 2 | Cukup |
| 13 | 3 | 2 | Cukup |
| 14 | 1 | 1 | Kurang |
| 15 | 9 | 3 | Baik |
| 16 | 0 | 1 | Kurang |
| 17 | 3 | 2 | Cukup |
| 18 | 2 | 1 | Kurang |
| 19 | 3 | 2 | Cukup |
| 20 | 7 | 2 | Cukup |
| 21 | 1 | 1 | Kurang |
| 22 | 6 | 2 | Cukup |
| 23 | 2 | 1 | Kurang |
| 24 | 4 | 2 | Cukup |

| Student | Achievement | Kelas_achieve | Kategori |
|---|---|---|---|
| 25 | 4 | 2 | Cukup |
| 26 | 4 | 2 | Cukup |
| 27 | 6 | 2 | Cukup |
| 28 | 8 | 3 | Baik |
| 29 | 0 | 1 | Kurang |
| 30 | 8 | 3 | Baik |
| 31 | 6 | 2 | Cukup |
| 32 | 1 | 1 | Kurang |
| 33 | 1 | 1 | Kurang |
| 34 | 4 | 2 | Cukup |
| 35 | 3 | 2 | Cukup |
| 36 | 5 | 2 | Cukup |
| 37 | 3 | 2 | Cukup |
| 38 | 8 | 3 | Baik |
| 39 | 5 | 2 | Cukup |
| 40 | 4 | 2 | Cukup |
| 41 | 5 | 2 | Cukup |
| 42 | 2 | 1 | Kurang |
| 43 | 3 | 2 | Cukup |
| 44 | 1 | 1 | Kurang |
| 45 | 3 | 2 | Cukup |
| 46 | 1 | 1 | Kurang |
| 47 | 0 | 1 | Kurang |
| 48 | 10 | 3 | Baik |

| Student | Achievement | Kelas_achieve | Kategori |
|---|---|---|---|
| 49 | 5 | 2 | Cukup |
| 50 | 2 | 1 | Kurang |
| 51 | 3 | 2 | Cukup |
| 52 | 9 | 3 | Baik |
| 53 | 0 | 1 | Kurang |
| 54 | 0 | 1 | Kurang |
| 55 | 1 | 1 | Kurang |
| 56 | 3 | 2 | Cukup |
| 57 | 5 | 2 | Cukup |
| 58 | 3 | 2 | Cukup |
| 59 | 4 | 2 | Cukup |
| 60 | 7 | 2 | Cukup |
| 61 | 5 | 2 | Cukup |
| 62 | 2 | 1 | Kurang |
| 63 | 1 | 1 | Kurang |
| 64 | 4 | 2 | Cukup |
| 65 | 4 | 2 | Cukup |
| 66 | 4 | 2 | Cukup |
| 67 | 7 | 2 | Cukup |
| 68 | 1 | 1 | Kurang |
| 69 | 2 | 1 | Kurang |
| 70 | 4 | 2 | Cukup |
| 71 | 2 | 1 | Kurang |
| 72 | 1 | 1 | Kurang |

| Student | Achievement | Kelas_achieve | Kategori |
|---|---|---|---|
| 73 | 6 | 2 | Cukup |
| 74 | 5 | 2 | Cukup |
| 75 | 7 | 2 | Cukup |
| 76 | 6 | 2 | Cukup |
| 77 | 9 | 3 | Baik |
| 78 | 6 | 2 | Cukup |
| 79 | 1 | 1 | Kurang |
| 80 | 2 | 1 | Kurang |
| 81 | 10 | 3 | Baik |
| 82 | 3 | 2 | Cukup |
| 83 | 3 | 2 | Cukup |
| 84 | 0 | 1 | Kurang |
| 85 | 3 | 2 | Cukup |

Lampiran 03. Data *Training* Iterasi 1

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 15 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 15 | 29 | 32 | 38 | 34 | 72 | 125 | 112 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |
| 4 | 28 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 4 | 7 | 21 | 69 | 31 | 38 | 65 | 43 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 5 | 30 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 7 | 5 | 4 | 8 | 4 | 15 | 66 | 40 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 6 | 38 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 11 | 13 | 7 | 104 | 42 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 7 | 48 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 82 | 41 | 69 | 26 | 178 | 45 | 50 | 65 | 110 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 | 3 | tinggi |
| 8 | 52 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 3 | 60 | 7 | 26 | 50 | 35 | 80 | 100 | 209 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |
| 9 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 71 | 57 | 116 | 25 | 9 | 94 | 206 | 152 | 48 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 10 | 4 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 41 | 23 | 142 | 111 | 33 | 25 | 219 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 11 | 6 | 2 | 0 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 25 | 40 | 6 | 94 | 21 | 48 | 193 | 142 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 12 | 11 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 43 | 110 | 84 | 8 | 25 | 9 | 42 | 100 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 2 | cukup |
| 13 | 12 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 108 | 105 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 14 | 13 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | 59 | 23 | 20 | 17 | 10 | 56 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 15 | 17 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 43 | 113 | 59 | 95 | 20 | 32 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 16 | 19 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 39 | 138 | 64 | 11 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 17 | 20 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 28 | 39 | 108 | 143 | 11 | 14 | 65 | 100 | 125 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 2 | cukup |
| 18 | 22 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 7 | 3 | 49 | 18 | 26 | 50 | 57 | 33 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 19 | 24 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 20 | 233 | 13 | 308 | 102 | 92 | 192 | 165 | 157 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | cukup |
| 20 | 25 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 21 | 39 | 11 | 5 | 6 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 21 | 26 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 15 | 16 | 46 | 136 | 54 | 52 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 22 | 27 | 0 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 30 | 9 | 21 | 9 | 35 | 192 | 103 | 108 | 22 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 2 | cukup |
| 23 | 31 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 1 | 10 | 51 | 76 | 28 | 54 | 42 | 42 | 31 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 24 | 34 | 2 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 77 | 6 | 172 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 25 | 35 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 25 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 26 | 36 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 0 | 41 | 8 | 101 | 10 | 22 | 160 | 271 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 27 | 37 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 11 | 17 | 15 | 11 | 4 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 28 | 39 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 24 | 14 | 26 | 62 | 57 | 72 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 29 | 40 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 74 | 85 | 11 | 30 | 64 | 76 | 63 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 30 | 41 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | 16 | 16 | 47 | 27 | 7 | 78 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 31 | 43 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 33 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 32 | 45 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 14 | 11 | 55 | 49 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 33 | 49 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 38 | 102 | 21 | 46 | 111 | 35 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 34 | 51 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 119 | 9 | 24 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 35 | 56 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 42 | 8 | 34 | 91 | 139 | 82 | 162 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 36 | 57 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 3 | 18 | 38 | 25 | 33 | 9 | 15 | 62 | 230 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | cukup |
| 37 | 58 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 38 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 174 | 175 | 143 | 16 | 62 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 39 | 60 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 15 | 3 | 40 | 85 | 10 | 23 | 12 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | cukup |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 61 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 7 | 48 | 45 | 19 | 69 | 44 | 38 | 47 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 41 | 64 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 0 | 1 | 2 | 5 | 148 | 295 | 60 | 68 | 81 | 103 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 42 | 65 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 2 | 3 | 31 | 38 | 10 | 25 | 8 | 7 | 36 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | cukup |
| 43 | 66 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 3 | 13 | 7 | 6 | 34 | 13 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 44 | 67 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 2 | 69 | 46 | 31 | 468 | 11 | 169 | 160 | 50 | 100 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | cukup |
| 45 | 1 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 52 | 54 | 36 | 33 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 46 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 20 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 47 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 44 | 47 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 48 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 39 | 278 | 213 | 83 | 54 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 49 | 8 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 33 | 14 | 82 | 69 | 33 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 50 | 9 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 54 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 51 | 10 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 41 | 4 | 280 | 34 | 27 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 52 | 14 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 8 | 14 | 19 | 2 | 12 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 53 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 139 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 54 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 38 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 55 | 21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 32 | 11 | 13 | 34 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 56 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 75 | 65 | 85 | 100 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | kurang |
| 57 | 29 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 89 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 58 | 32 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 67 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 59 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 60 | 42 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 110 | 114 | 60 | 10 | 98 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 61 | 44 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 118 | 29 | 11 | 105 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 62 | 46 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 40 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 63 | 47 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 46 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 64 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 66 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 65 | 53 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 123 | 4 | 183 | 84 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | kurang |
| 66 | 54 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 136 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 67 | 55 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 114 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 68 | 62 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 15 | 59 | 140 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 69 | 63 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 100 | 76 | 17 | 14 | 56 | 57 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 70 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 39 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |

Lampiran 04. Data *Training* Iterasi 2

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 15 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 15 | 29 | 32 | 38 | 34 | 72 | 125 | 112 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |
| 4 | 28 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 4 | 7 | 21 | 69 | 31 | 38 | 65 | 43 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 5 | 30 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 7 | 5 | 4 | 8 | 4 | 15 | 66 | 40 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 6 | 38 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 11 | 13 | 7 | 104 | 42 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 7 | 77 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 3 | 8 | 17 | 4 | 10 | 13 | 10 | 21 | 24 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 3 | tinggi |
| 8 | 81 | 2 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 3 | 17 | 87 | 180 | 450 | 72 | 108 | 100 | 97 | 105 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | tinggi |
| 9 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 71 | 57 | 116 | 25 | 9 | 94 | 206 | 152 | 48 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 10 | 4 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 41 | 23 | 142 | 111 | 33 | 25 | 219 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 11 | 6 | 2 | 0 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 25 | 40 | 6 | 94 | 21 | 48 | 193 | 142 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 12 | 11 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 43 | 110 | 84 | 8 | 25 | 9 | 42 | 100 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 2 | cukup |
| 13 | 12 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 108 | 105 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 14 | 13 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | 59 | 23 | 20 | 17 | 10 | 56 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 15 | 17 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 43 | 113 | 59 | 95 | 20 | 32 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 16 | 19 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 39 | 138 | 64 | 11 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 17 | 20 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 28 | 39 | 108 | 143 | 11 | 14 | 65 | 100 | 125 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 2 | cukup |
| 18 | 22 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 7 | 3 | 49 | 18 | 26 | 50 | 57 | 33 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 19 | 24 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 20 | 233 | 13 | 308 | 102 | 92 | 192 | 165 | 157 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | cukup |
| 20 | 25 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 21 | 39 | 11 | 5 | 6 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 21 | 26 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 15 | 16 | 46 | 136 | 54 | 52 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 22 | 27 | 0 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 30 | 9 | 21 | 9 | 35 | 192 | 103 | 108 | 22 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 2 | cukup |
| 23 | 31 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 1 | 10 | 51 | 76 | 28 | 54 | 42 | 42 | 31 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 24 | 34 | 2 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 77 | 6 | 172 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 25 | 35 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 25 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 26 | 36 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 0 | 41 | 8 | 101 | 10 | 22 | 160 | 271 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 27 | 37 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 11 | 17 | 15 | 11 | 4 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 28 | 39 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 24 | 14 | 26 | 62 | 57 | 72 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 29 | 40 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 74 | 85 | 11 | 30 | 64 | 76 | 63 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 30 | 41 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | 16 | 16 | 47 | 27 | 7 | 78 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 31 | 43 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 33 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 32 | 45 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 14 | 11 | 55 | 49 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 33 | 49 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 38 | 102 | 21 | 46 | 111 | 35 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 34 | 51 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 119 | 9 | 24 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 35 | 56 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 42 | 8 | 34 | 91 | 139 | 82 | 162 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 36 | 70 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 50 | 154 | 47 | 228 | 56 | 85 | 48 | 42 | 27 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 2 | cukup |
| 37 | 73 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 210 | 98 | 48 | 76 | 56 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 38 | 74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 159 | 49 | 51 | 8 | 12 | 332 | 150 | 36 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 39 | 75 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 2 | 11 | 19 | 35 | 20 | 25 | 65 | 97 | 100 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 2 | cukup |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 76 | 0 | 1 | 2 | 3 | 0 | 2 | 3 | 3 | 3 | 23 | 19 | 19 | 5 | 7 | 9 | 92 | 69 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 41 | 78 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 42 | 54 | 87 | 83 | 34 | 264 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 42 | 82 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 58 | 93 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 43 | 83 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 39 | 44 | 62 | 7 | 63 | 37 | 79 | 148 | 48 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 2 | cukup |
| 44 | 85 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 1 | 103 | 22 | 262 | 16 | 87 | 61 | 282 | 296 | 30 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 2 | cukup |
| 45 | 1 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 52 | 54 | 36 | 33 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 46 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 20 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 47 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 44 | 47 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 48 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 39 | 278 | 213 | 83 | 54 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 49 | 8 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 33 | 14 | 82 | 69 | 33 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 50 | 9 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 54 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 51 | 10 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 41 | 4 | 280 | 34 | 27 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 52 | 14 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 8 | 14 | 19 | 2 | 12 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 53 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 139 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 54 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 38 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 55 | 21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 32 | 11 | 13 | 34 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 56 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 75 | 65 | 85 | 100 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | kurang |
| 57 | 29 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 89 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 58 | 32 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 67 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 59 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 60 | 42 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 110 | 114 | 60 | 10 | 98 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 61 | 44 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 118 | 29 | 11 | 105 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 62 | 46 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 40 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 63 | 47 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 46 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 64 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 66 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 65 | 69 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 23 | 77 | 23 | 37 | 53 | 21 | 44 | 113 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 66 | 71 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 83 | 24 | 6 | 8 | 12 | 17 | 63 | 58 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 67 | 72 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 | 110 | 105 | 489 | 79 | 11 | 100 | 65 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 68 | 79 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 55 | 48 | 93 | 40 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 69 | 80 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 5 | 53 | 38 | 38 | 142 | 18 | 120 | 67 | 74 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | kurang |
| 70 | 84 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 18 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |

Lampiran 05. Data *Training* Iterasi 3

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 22 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 7 | 3 | 49 | 18 | 26 | 50 | 57 | 33 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 4 | 24 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 20 | 233 | 13 | 308 | 102 | 92 | 192 | 165 | 157 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | cukup |
| 5 | 25 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 7 | 21 | 39 | 11 | 5 | 6 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 6 | 26 | 2 | 3 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 15 | 16 | 46 | 136 | 54 | 52 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 7 | 27 | 0 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 30 | 9 | 21 | 9 | 35 | 192 | 103 | 108 | 22 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 | 2 | cukup |
| 8 | 31 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 1 | 10 | 51 | 76 | 28 | 54 | 42 | 42 | 31 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 9 | 34 | 2 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | 77 | 6 | 172 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 10 | 35 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 25 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 11 | 36 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 0 | 41 | 8 | 101 | 10 | 22 | 160 | 271 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 12 | 37 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 11 | 17 | 15 | 11 | 4 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 13 | 39 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 24 | 14 | 26 | 62 | 57 | 72 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 14 | 40 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 74 | 85 | 11 | 30 | 64 | 76 | 63 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 15 | 41 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | 16 | 16 | 47 | 27 | 7 | 78 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 16 | 43 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 33 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 17 | 45 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 14 | 11 | 55 | 49 | 20 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 18 | 49 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 38 | 102 | 21 | 46 | 111 | 35 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 19 | 51 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 119 | 9 | 24 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 20 | 56 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 42 | 8 | 34 | 91 | 139 | 82 | 162 | 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 21 | 57 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 3 | 18 | 38 | 25 | 33 | 9 | 15 | 62 | 230 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | cukup |
| 22 | 58 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 23 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 174 | 175 | 143 | 16 | 62 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 24 | 60 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 15 | 3 | 40 | 85 | 10 | 23 | 12 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | cukup |
| 25 | 61 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 7 | 48 | 45 | 19 | 69 | 44 | 38 | 47 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 26 | 64 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 0 | 1 | 2 | 5 | 148 | 295 | 60 | 68 | 81 | 103 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 27 | 65 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 2 | 3 | 31 | 38 | 10 | 25 | 8 | 7 | 36 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | cukup |
| 28 | ss | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 3 | 13 | 7 | 6 | 34 | 13 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 29 | 67 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 2 | 69 | 46 | 31 | 468 | 11 | 169 | 160 | 50 | 100 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | cukup |
| 30 | 70 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 50 | 154 | 47 | 228 | 56 | 85 | 48 | 42 | 27 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 2 | cukup |
| 31 | 73 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 210 | 98 | 48 | 76 | 56 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 32 | 74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 159 | 49 | 51 | 8 | 12 | 332 | 150 | 36 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 33 | 75 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 2 | 11 | 19 | 35 | 20 | 25 | 65 | 97 | 100 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 2 | cukup |
| 34 | 76 | 0 | 1 | 2 | 3 | 0 | 2 | 3 | 3 | 3 | 23 | 19 | 19 | 5 | 7 | 9 | 92 | 69 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 35 | 78 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 42 | 54 | 87 | 83 | 34 | 264 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 36 | 82 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 58 | 93 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 37 | 83 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 39 | 44 | 62 | 7 | 63 | 37 | 79 | 148 | 48 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 2 | cukup |
| 38 | 85 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 1 | 103 | 22 | 262 | 16 | 87 | 61 | 282 | 296 | 30 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 2 | cukup |
| 39 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 139 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 139 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 40 | 18 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 38 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 41 | 21 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 32 | 11 | 13 | 34 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 42 | 23 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 75 | 65 | 85 | 100 | 135 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | kurang |
| 43 | 29 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 89 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 44 | 32 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 67 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 45 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 46 | 42 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 110 | 114 | 60 | 10 | 98 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 47 | 44 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 118 | 29 | 11 | 105 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 48 | 46 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 40 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 49 | 47 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 46 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 50 | 50 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 66 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 51 | 53 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 123 | 4 | 183 | 84 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | kurang |
| 52 | 54 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 136 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 53 | 55 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 114 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 54 | 62 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 15 | 59 | 140 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 55 | 63 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 100 | 76 | 17 | 14 | 56 | 57 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 56 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 39 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 57 | 69 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 23 | 77 | 23 | 37 | 53 | 21 | 44 | 113 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 58 | 71 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 83 | 24 | 6 | 8 | 12 | 17 | 63 | 58 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 59 | 72 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 | 110 | 105 | 489 | 79 | 11 | 100 | 65 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 60 | 79 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 55 | 48 | 93 | 40 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 61 | 80 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 5 | 53 | 38 | 38 | 142 | 18 | 120 | 67 | 74 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | kurang |
| 62 | 84 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 18 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 63 | 1 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | 52 | 54 | 36 | 33 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 64 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 20 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 65 | 30 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 7 | 5 | 4 | 8 | 4 | 15 | 66 | 40 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 66 | 38 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 11 | 13 | 7 | 104 | 42 | 33 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |
| 67 | 48 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 82 | 41 | 69 | 26 | 178 | 45 | 50 | 65 | 110 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 | 3 | tinggi |
| 68 | 52 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 3 | 60 | 7 | 26 | 50 | 35 | 80 | 100 | 209 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |
| 69 | 77 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 3 | 8 | 17 | 4 | 10 | 13 | 10 | 21 | 24 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 3 | tinggi |
| 70 | 81 | 2 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 3 | 17 | 87 | 180 | 450 | 72 | 108 | 100 | 97 | 105 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | tinggi |

Lampiran 06. Data *Testing* Iterasi 1

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 77 | 2 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 3 | 8 | 17 | 4 | 10 | 13 | 10 | 21 | 24 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | 3 | tinggi |
| 4 | 81 | 2 | 3 | 3 | 3 | 3 | 3 | 0 | 2 | 3 | 17 | 87 | 180 | 450 | 72 | 108 | 100 | 97 | 105 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | tinggi |
| 5 | 70 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 50 | 154 | 47 | 228 | 56 | 85 | 48 | 42 | 27 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 2 | cukup |
| 6 | 73 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 210 | 98 | 48 | 76 | 56 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 7 | 74 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 159 | 49 | 51 | 8 | 12 | 332 | 150 | 36 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 8 | 75 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 0 | 2 | 11 | 19 | 35 | 20 | 25 | 65 | 97 | 100 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 2 | cukup |
| 9 | 76 | 0 | 1 | 2 | 3 | 0 | 2 | 3 | 3 | 3 | 23 | 19 | 19 | 5 | 7 | 9 | 92 | 69 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 10 | 78 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 42 | 54 | 87 | 83 | 34 | 264 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 11 | 82 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 58 | 93 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 12 | 83 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 0 | 2 | 39 | 44 | 62 | 7 | 63 | 37 | 79 | 148 | 48 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 2 | cukup |
| 13 | 85 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 1 | 103 | 22 | 262 | 16 | 87 | 61 | 282 | 296 | 30 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 2 | cukup |
| 14 | 69 | 2 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 23 | 77 | 23 | 37 | 53 | 21 | 44 | 113 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 15 | 71 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 83 | 24 | 6 | 8 | 12 | 17 | 63 | 58 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 16 | 72 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 | 110 | 105 | 489 | 79 | 11 | 100 | 65 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 17 | 79 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 55 | 48 | 93 | 40 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 18 | 80 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 1 | 5 | 53 | 38 | 38 | 142 | 18 | 120 | 67 | 74 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 1 | kurang |
| 19 | 84 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 18 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |

UNDIKSHA

Lampiran 07. Data *Testing* Iterasi 2

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 53 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 123 | 4 | 183 | 84 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | kurang |
| 4 | 54 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 136 | 184 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | kurang |
| 5 | 55 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 114 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 6 | 62 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 19 | 15 | 59 | 140 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 7 | 63 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 100 | 76 | 17 | 14 | 56 | 57 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 8 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 184 | 39 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 9 | 57 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 3 | 18 | 38 | 25 | 33 | 9 | 15 | 62 | 230 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | cukup |
| 10 | 58 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 11 | 59 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 174 | 175 | 143 | 16 | 62 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 12 | 60 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 0 | 15 | 3 | 40 | 85 | 10 | 23 | 12 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | cukup |
| 13 | 61 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 2 | 0 | 7 | 48 | 45 | 19 | 69 | 44 | 38 | 47 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 14 | 64 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 0 | 1 | 2 | 5 | 148 | 295 | 60 | 68 | 81 | 103 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 15 | 65 | 2 | 3 | 3 | 0 | 2 | 3 | 0 | 2 | 3 | 31 | 38 | 10 | 25 | 8 | 7 | 36 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | cukup |
| 16 | 66 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 3 | 13 | 7 | 6 | 34 | 13 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 17 | 67 | 0 | 1 | 2 | 0 | 2 | 3 | 3 | 0 | 2 | 69 | 46 | 31 | 468 | 11 | 169 | 160 | 50 | 100 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 2 | cukup |
| 18 | 48 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 82 | 41 | 69 | 26 | 178 | 45 | 50 | 65 | 110 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 10 | 3 | tinggi |
| 19 | 52 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 3 | 60 | 7 | 26 | 50 | 35 | 80 | 100 | 209 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |

Lampiran 08. Data *Testing* Iterasi 3

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stu- | Score | | | | | | | | | Submission time | | | | | | | | | Time to Access Help | | | | | | | | | achieve | kelas | kategori |
| 2 | dents | $prob_1$ | $prob_2$ | $prob_3$ | $prob_4$ | $prob_5$ | $prob_6$ | $prob_7$ | $prob_8$ | $prob_9$ | $t_1$ | $t_2$ | $t_3$ | $t_4$ | $t_5$ | $t_6$ | $t_7$ | $t_8$ | $t_9$ | $A2H_1$ | $A2H_2$ | $A2H_3$ | $A2H_4$ | $A2H_5$ | $A2H_6$ | $A2H_7$ | $A2H_8$ | $A2H_9$ | ment | | |
| 3 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 3 | 71 | 57 | 116 | 25 | 9 | 94 | 206 | 152 | 48 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 2 | cukup |
| 4 | 4 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 0 | 41 | 23 | 142 | 111 | 33 | 25 | 219 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | cukup |
| 5 | 6 | 2 | 0 | 2 | 0 | 2 | 3 | 3 | 3 | 3 | 25 | 40 | 6 | 94 | 21 | 48 | 193 | 142 | 68 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | cukup |
| 6 | 11 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 43 | 110 | 84 | 8 | 25 | 9 | 42 | 100 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 2 | cukup |
| 7 | 12 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 25 | 27 | 5 | 108 | 105 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | cukup |
| 8 | 13 | 2 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | 59 | 23 | 20 | 17 | 10 | 56 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 9 | 17 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 43 | 113 | 59 | 95 | 20 | 32 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 10 | 19 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 39 | 138 | 64 | 11 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | cukup |
| 11 | 20 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 28 | 39 | 108 | 143 | 11 | 14 | 65 | 100 | 125 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 7 | 2 | cukup |
| 12 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 44 | 47 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 13 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 39 | 278 | 213 | 83 | 54 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 14 | 8 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 33 | 14 | 82 | 69 | 33 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 15 | 9 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 54 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 16 | 10 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 41 | 4 | 280 | 34 | 27 | 111 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | kurang |
| 17 | 14 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 8 | 14 | 19 | 2 | 12 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | kurang |
| 18 | 15 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 15 | 29 | 32 | 38 | 34 | 72 | 125 | 112 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | tinggi |
| 19 | 28 | 2 | 3 | 3 | 0 | 2 | 3 | 3 | 3 | 3 | 4 | 7 | 21 | 69 | 31 | 38 | 65 | 43 | 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | tinggi |