|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DIGIT 1 | DIGIT 2 | Colon 1 | DIGIT 3 | DIGIT 4 | DIGIT 5 | Colon 2 | DIGIT 6 | DIGIT 7 | DIGIT 8 |
|  | Maximum number that can be display on Seven Segment Display using N segments  - GeeksforGeeks |  |  |  |  |  |  |  |  |

Display Segments -> Payload

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G |
| DIGIT 1 | 1,6 | 1,5 | 2,3 | 2,2 | 2,1 | 1,7 | 1,4 |
| DIGIT 2 | 1,2 | 1,1 | 2,7 | 2,6 | 2,5 | 1,3 | 1,0 |
| DIGIT 3 | 0,6 | 0,5 | 3,3 | 3,2 | 3,1 | 0,7 | 0,4 |
| DIGIT 4 | 0,2 | 0,1 | 3,7 | 3,6 | 3,5 | 0,3 | 0,0 |

Coon 1 = 2,4 | Digit 1 H,I = 2,0 | Digit 3 DP = 3,4 | Digit 2 DP = 3,0 | Colon 2 = 4,7

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A1 | A2 | B | C | D1 | D2 | E | F | G1 | G2 | H | I | J | K | L | m |
| Digit 5 | 5,4 | 5,2 | 5,0 | 6,7 | 6,3 | 6,5 | 6,1 | 5,6 | 5,7 | 7,0 | 5,5 | 5,3 | 5,1 | 6,6 | 6,4 | 6,2 |
| Digit 6 | 4,3 | 4,1 | 11,7 | 7,7 | 7,3 | 7,5 | 7,1 | 4,5 | 4,6 | 8,0 | 4,4 | 4,2 | 4,0 | 7,6 | 7,4 | 7,2 |
| Digit 7 | 11,3 | 11,1 | 10,7 | 8,7 | 8,3 | 8,5 | 8,1 | 11,5 | 11,6 | 9,0 | 11,4 | 11,2 | 11,0 | 8,6 | 8,4 | 8,2 |
| Digit 8 | 10,2 | | 10,0 | 9,6 | 9,4 | | 9,1 | 10,5 | 10,6 | 9,7 | 10,4 | 10,3 | 10,1 | 9,5 | 9,3 | 9,2 |

Payload -> Display Segments

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
| Byte 0 | DIGIT 3, F | DIGIT 3, A | DIGIT 3, B | DIGIT 3, G | DIGIT 4, F | DIGIT 4, A | DIGIT 4, B | DIGIT 4, G |
| Byte 1 | DIGIT 1, F | DIGIT 1, A | DIGIT 1, B | DIGIT 1, G | DIGIT 2, F | DIGIT 2, A | DIGIT 2, B | DIGIT 2, G |
| Byte 2 | DIGIT 2, C | DIGIT 2, D | DIGIT 2, E | COLON 1 | DIGIT 1, C | DIGIT 1, D | DIGIT 1, E | 1, H+I |
| Byte 3 | DIGIT 4, C | DIGIT 4, D | DIGIT 4, E | 3, DP | DIGIT 3, C | DIGIT 3, D | DIGIT 3, E | 2, DP |
| Byte 4 | COLON 2 | DIGIT 6, G1 | DIGIT 6, F | DIGIT 6, H | DIGIT 6, A1 | DIGIT 6, I | DIGIT 6, A2 | DIGIT 6, J |
| Byte 5 | DIGIT 5, G1 | DIGIT 5, F | DIGIT 5, H | DIGIT 5, A1 | DIGIT 5, I | DIGIT 5, A2 | DIGIT 5, J | DIGIT 5, B |
| Byte 6 | DIGIT 5, C | DIGIT 5, K | DIGIT 5, D2 | DIGIT 5, L | DIGIT 5, D1 | DIGIT 5, M | DIGIT 5, E | UNKNOWN |
| Byte 7 | DIGIT 6, C | DIGIT 6, K | DIGIT 6, D2 | DIGIT 6, L | DIGIT 6, D1 | DIGIT 6, M | DIGIT 6, E | DIGIT 5, G2 |
| Byte 8 | DIGIT 7, C | DIGIT 7, K | DIGIT 7, D2 | DIGIT 7, L | DIGIT 7, D1 | DIGIT 7, M | DIGIT 7, E | DIGIT 6, G2 |
| Byte 9 | DIGIT 8, G2 | DIGIT 8, C | DIGIT 8, K | DIGIT 8, D1 | DIGIT 8, L | DIGIT 8, M | DIGIT 8, E | DIGIT 7, G2 |
| Byte 10 | DIGIT 7, B | DIGIT 8, G1 | DIGIT 8, F | DIGIT 8, H | DIGIT 8, I | DIGIT 8, A1 | DIGIT 8, J | DIGIT 8, B |
| Byte 11 | DIGIT 6, B | DIGIT 7, G1 | DIGIT 7, F | DIGIT 7, H | DIGIT 7, A1 | DIGIT 7, I | DIGIT 7, A2 | DIGIT 7, J |