

Truth Table : 1 To 4 Mux

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S0 | S1 | D0 | D1 | D2 | D3 |
| 0 | 0 | D\_in | 0 | 0 | 0 |
| 1 | 0 | 0 | D\_in | 0 | 0 |
| 0 | 1 | 0 | 0 | D\_in | 0 |
| 1 | 1 | 0 | 0 | 0 | D\_in |



Truth Table : 8 To 1 DeMux

|  |  |  |  |
| --- | --- | --- | --- |
| S0 | S1 | S2 | F |
| 0 | 0 | 0 | D0 |
| 1 | 0 | 0 | D1 |
| 0 | 1 | 0 | D2 |
| 1 | 1 | 0 | D3 |
| 0 | 0 | 1 | D4 |
| 1 | 0 | 1 | D5 |
| 0 | 1 | 1 | D6 |
| 1 | 1 | 1 | D7 |

Truth Table : 4 to 1 Mux

|  |  |  |
| --- | --- | --- |
| S0 | S1 | F |
| 0 | 0 | D0 |
| 1 | 0 | D1 |
| 0 | 1 | D2 |
| 1 | 1 | D3 |