ASSIGNMENT - MUX

1. Explain, Why mux is called as universal function generator
2. Implement Full adder by using the MUX
3. Design 16x1 Mux using 2x1, 4x1 and 8x1?
4. Explore various applications of Mux
5. Implement the Boolean function using 4x1 mux

F(A,B,C)=∑m(1,3,5,7)

1. Implement the Boolean function using mux

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **F** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |