

CLO #3: Design combinational circuits using functional blocks

Q2:

[15 marks]

Design a combinational circuit that take a 3-bit number as input and generates its 1's complement as output. Implement the circuit using 3-8 line decoder with active low enable and active high output and minimum additional logic

CLO #2: Design combinational circuits using functional blocks

Q3:

[15marks]

Design a digital circuit that takes a 4 bit number X as input and increments it by 2 at the output. Use 1 bit full adder as a functional block. You can add the extra logic if required with any two input gates. Show complete working.