

Ques: Design a 3-bit sequence detector using D Flip-Flops to detect a sequence '101'. Don't allow overlapping. Show the state diagram for Mealy and Moore Machine based implementation. Design the Mealy Machine based implementation.

Ques: Design a 3-bit sequence detector using D Flip-Flop to detect a sequence '101' where overlapping is allowed. Show the State Diagram for Mealy and Moore Machine based implementation. Design the Moore Machine based implementation.

Ques: Design a 3-bit Gray Code Counter.

Sequence:

000 → 001 → 011 → 010 → 110 → 111 → 101 → 100 → 000