

Assignment 2

Question #1: Design a sequential circuit that uses the state sequence 11,10,01,00,11 and repeat when $x=1$. However it remains to the same state when $x=0$. Complete all steps starting from state diagram. Use JK Flip Flops for the design.

Question #2: Design a sequential circuit that uses the state sequence 00,01,10,11,00 and repeat when $x=1$. However it remains to the same state when $x=0$. Complete all steps starting from state diagram. Use SR Flip Flops for the design.

Question #3: Design a sequential circuit that uses the state sequence 00,01,10,11,00 and repeat when $x=1$. It uses the state sequence 11,10,01,00,11 and repeat when $x=0$. Complete all steps starting from state diagram. Use SR Flip Flops for the design.

Question #4: Solve Question # 3 using T flip flops