

Tutorial – 13 (Questions)

1. Convert T Flip Flop into D Flip Flop.
2. Explain the realization of T Flip Flop from JK Flip Flop.
3. Design and Implement a MOD-6 asynchronous counter using T Flip Flop.
4. A Binary Ripple Counter is required to count up to $(16383)_{10}$.
 1. How many Flip Flops are required?
 2. If the clock Frequency is 8.192 MHz, what is the frequency at the output of MSB?
5. Design a MOD-5 synchronous counter using JK flip-flop.
6. Design and Implement 4-bit Ring Counter using
 1. D Flip Flop
 2. JK Flip Flop

Also, Draw the Timing Diagram and State Diagram.