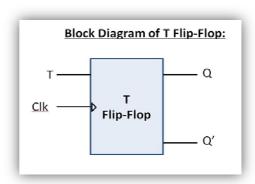
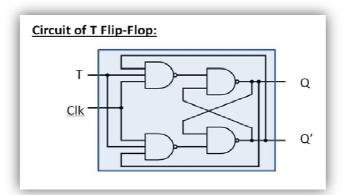
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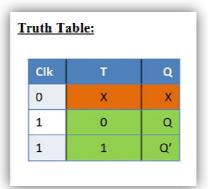
Course Name: A Level (1st Sem)

Subject: CO Topic: Flip-Flop contd. Date: 21-03-20

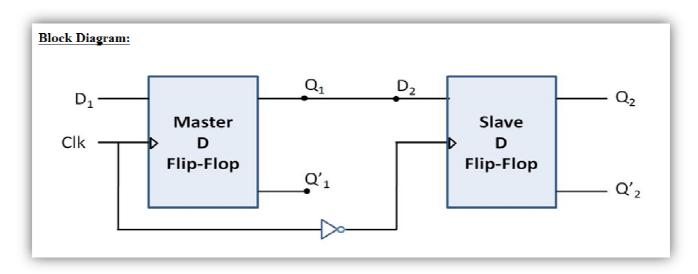
T (Toggling) Flip-Flop: T Flip-Flop is a slight modification of JK Flip-Flop. The T input to this Flip-Flop is sole input and is distributed to create a set of two necessary inputs. This management disables the differing combinations like [0,1] or [1,0] and only "NO CHANGE" & "TOGGLE" outputs are evaluated.



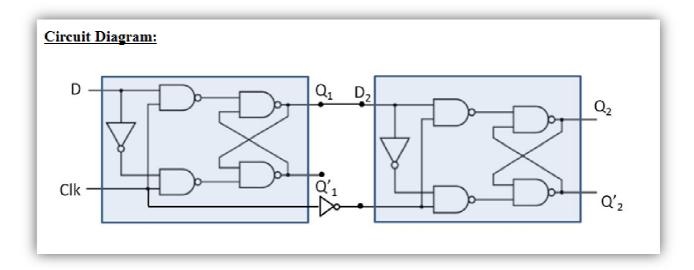




Edge Triggering: Edge-Triggering is nothing but a technology through which at least two Flip-Flops can be connected to work on different clock pulses respectively. The First Flip-Flop that gets normal Clock pulse is called a MASTER FLIP-FLOP while the other getting inverted Clock pulse is called a SLAVE FLIP-FLOP. This entire combination is often termed as MASTER-SLAVE FLIP-FLOP.



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In these diagrams we clearly see that the clock is inverted for the second flip-flop. This results in the way that only one flip flop works at a time and the working flip flop is termed as master whereas the other is called slave.

Exercise:

- 1. What is edge triggering?
- 2. Differentiate between master and Slave flip flops.