Experiment 6.

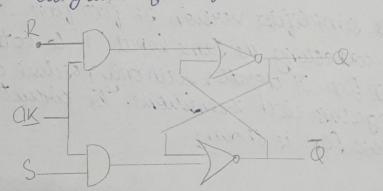
Avin's Design SR feip flop - JK flip flop.

- 1) flip flop, using behavioural style of modelling.

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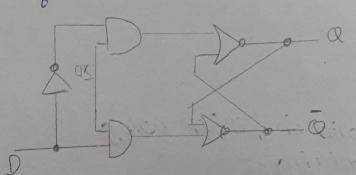
Software Used: Model Sim PE student Edition 10.49

Theory: - SR Flip Flog: These operate with only positive clock tuansitions ver negative clock transition whereas, SR latch operates with enable signal. The circuit diggram of SR-flipflop is shown



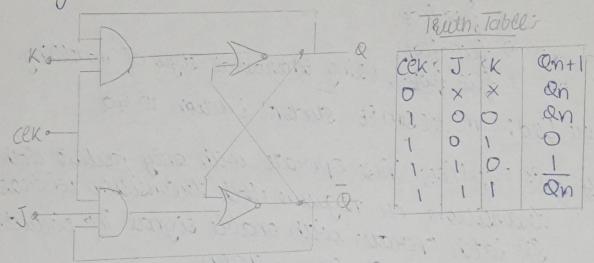
S R Qn+ 0 0 Qn 0 1 0

DFGip Flops + It greates with only positive clock transitions · er negative transitions, whereas, D later operates with enable Signal. That means the output of D flip flop insensitive to the changes in the input, I except for active transition of the clock signal. The circuit diagram of D flip flop Ruth Table's

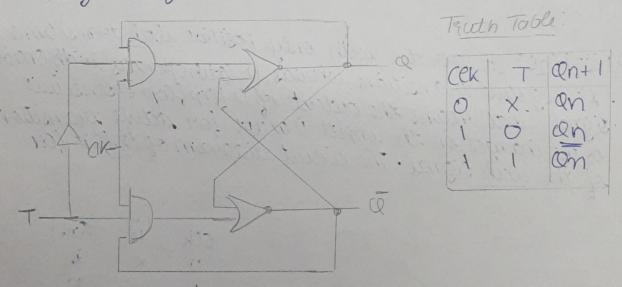


cek	10	Qn+1
0	X	an
1	0	0
1	1	1.

JK Flip Flop: It is the modified version of SR flip flop. It operates with only positive clock transitions or negative clock transitions. The circuit diagram is shown



This Flor It is the simplified version Ix flip flop It is obtained by connecting the same input 'I' to both inputs of Ix flip flop It operates with only positive clock inputs of Ix flip flop is shown.



Result? Hence we have studied in flipflop using behavioural modelling.