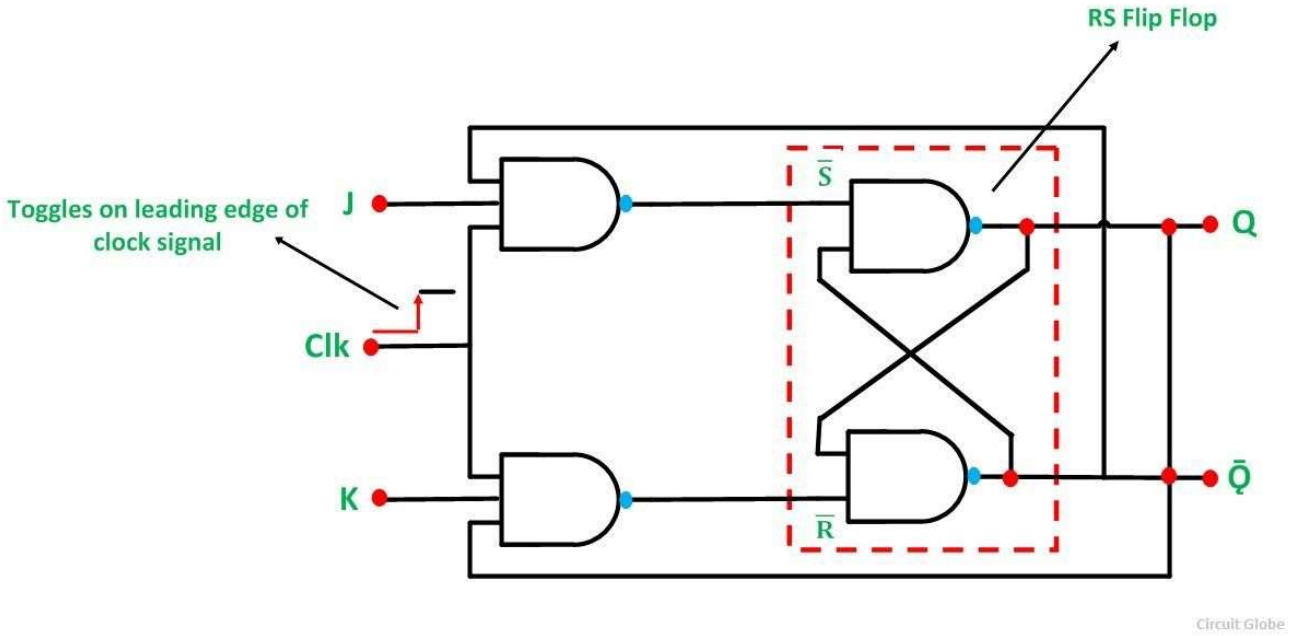
DAY #16

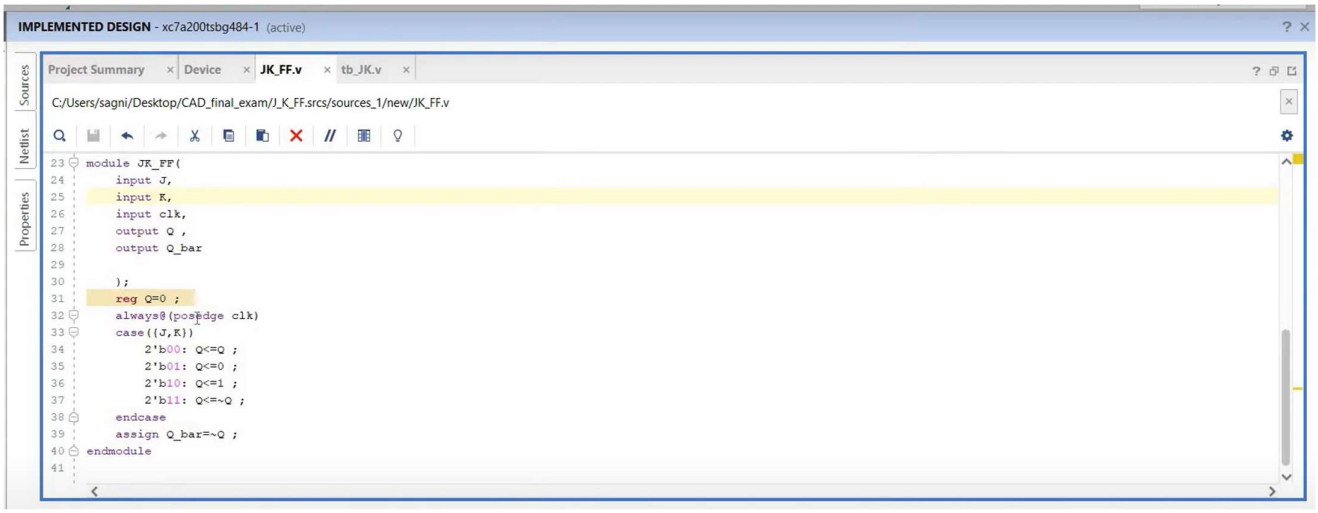
30 DAYS OF VERILOG

AIM – TO IMPLEMENT JK FLIP-FLOP

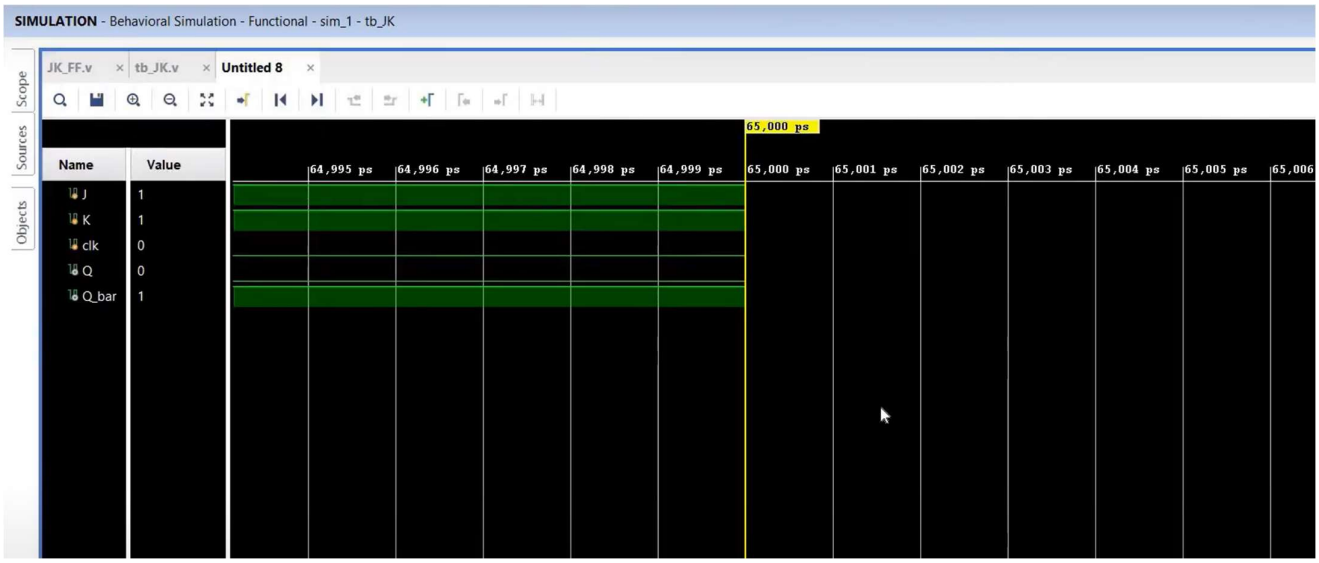
A **JK flip-flop** is a sequential logic circuit that can store one bit of binary information. It's named after its inventor, Jack Kilby, who was a Texas Instruments engineer and a co-inventor of the integrated circuit. The JK flip-flop has one clock input pin (CLK), two data input pins (J and K), and two output pins (Q and $\bar{Q}$).



CODE –



WAVEFORM –


SIMULATION - Behavioral Simulation - Functional - sim_1 - tb_JK
JK_FF.v
tb_JK.v
Untitled 8
Scope
Sources
Objects
Name
Value
J
1
K
1
clk
0
Q
0
Q_bar
1
64,995 ps
64,996 ps
64,997 ps
64,998 ps
64,999 ps
65,000 ps
65,001 ps
65,002 ps
65,003 ps
65,004 ps
65,005 ps
65,006