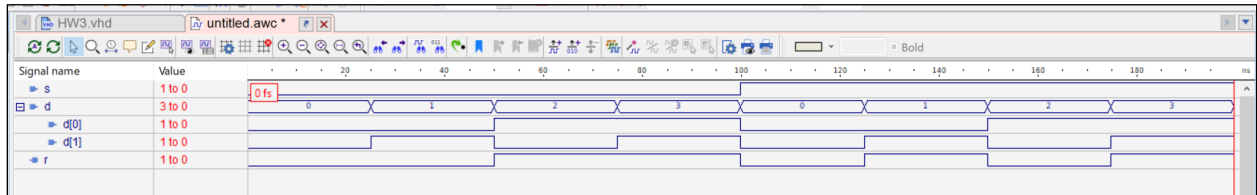


# ENCS533

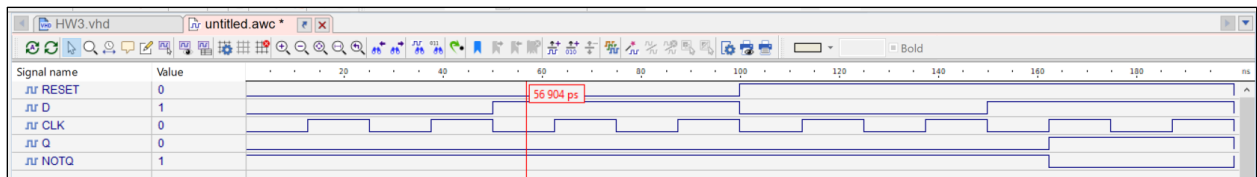
## HW3 Simulations

TAREQ SHANNAK- 1181404

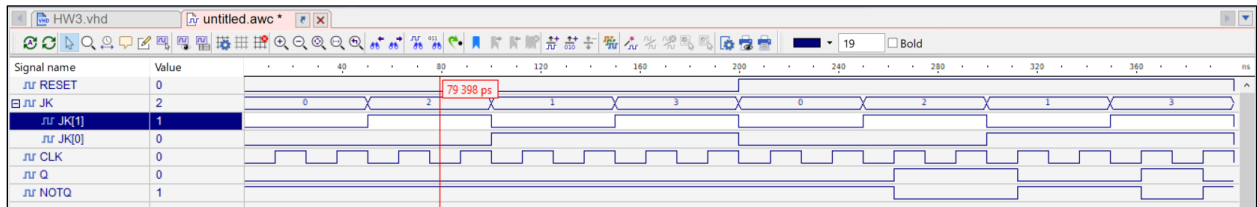
### MUX 2X1



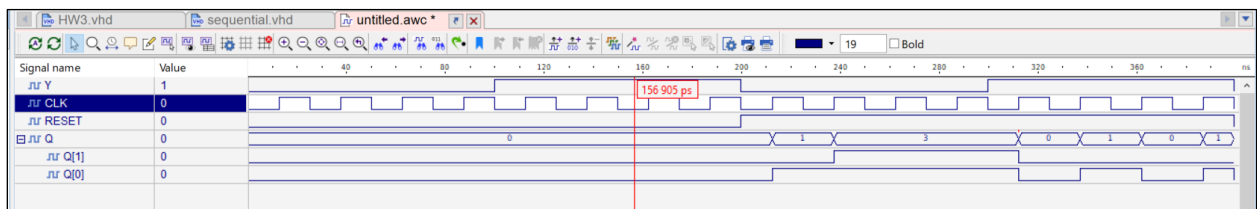
### D FLIP-FLOP



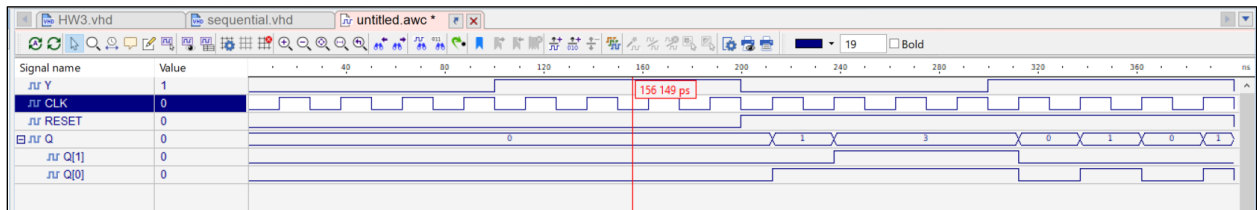
### JK FLIP-FLOP



### Structural System With Test Bench



### Behavioral System With Test Bench



# State Table & State Diagram

Tareq Shannak

HW 3

30/10/2020

1181404

ENC 533

Present $Q_1, Q_0$	Input $Y$	Next & output $Q_1, Q_0$	$D_1$	$AA_0$	$J_0, K_0$
0 0	0	0 1	0	1 0	1 1
0 0	1	0 1	0	1 1	1 1
0 1	0	1 1	1	1 0	1 1
0 1	1	0 0	0	1 1	1 1
1 0	0	1 0	1	0 0	1 0
1 0	1	0 1	0	1 1	1 0
1 1	0	1 1	1	0 0	0 0
1 1	1	0 0	0	0 1	0 0

