

Aayush Shah

19BCE245

10 November 2020

Practical 7

RS Flip-Flop

C	S	R	Q_{n+1}	Q'_{n+1}
0	x	x	Q_n	Q_n
1	0	0	Q_0	Q_0
1	0	1	0	1
1	1	0	1	0
1	1	1	$Q=Q'$	$Q=Q'$

D Flip-Flop

C	D	Q_{n+1}	Q'_{n+1}
0	x	Q_n	Q_n
1	0	0	1
1	1	1	0

JK Flip-Flop

C	J	K	Q_{n+1}
0	x	x	Q_n
1	0	0	Q_n
1	0	1	0
1	1	0	1
1	1	1	Q'_n

T Flip-Flop

C	T	Q_{n+1}
0	x	Q_n
1	0	Q_n
1	1	Q'_n