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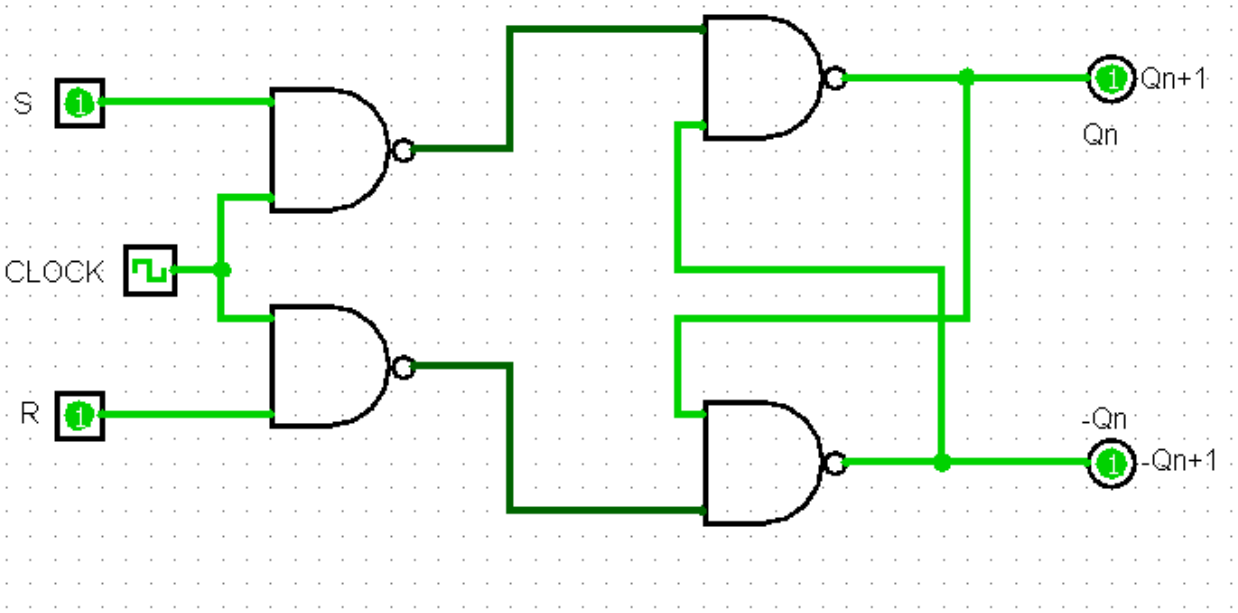
Section (LAB)	A
☐ **1st Half**	☑ **2nd Half**
Date:	14-12-2020
Subject Name:	Computer Organization and Architecture Lab
Subject Code:	CSC395

Q.1(AIM)➔ Realization of the S-R FLIP-FLOP

Apparitor Use: MAC OS-bigSur, logisim

Source Code: (Screen Short):



Output (Screen Short):

|

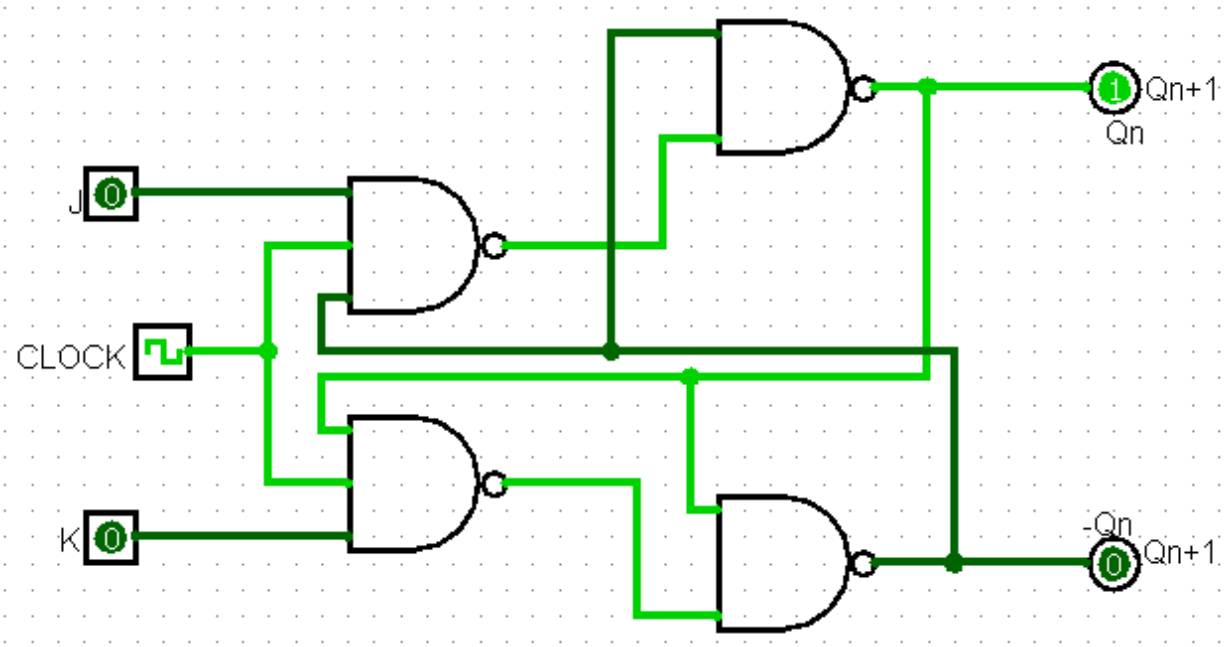
S	R	Qn	Qn+1
0	0	X	Qn
0	1	X	0
1	0	X	1
1	1	X	ID

Conclusion: Here we realize the implementation of S-R Flip-Flop

Q.2(AIM)➔ Realization of the J-K FLIP-FLOP

Apparitor Use: MAC OS-bigSur, logisim

Source Code: (Screen Short):



Output (Screen Short):

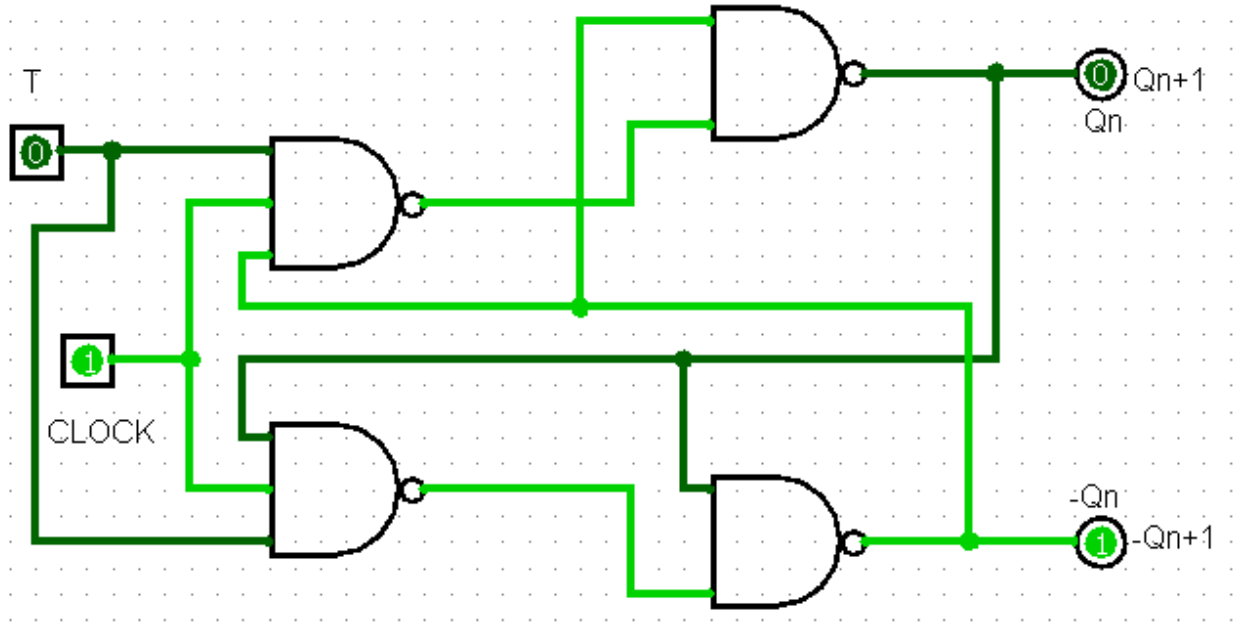
J	K	Qn	Qn+1
0	0	X	Qn
0	1	X	0-Reset
1	0	X	1
1	1	X	~Qn

Conclusion: Here we realize the implementation of J-K Flip-Flop

Q.3(AIM)➔ Realization of the T FLIP-FLOP

Apparitor Use: MAC OS-bigSur, logisim

Source Code: (Screen Short):



Output (Screen Short):

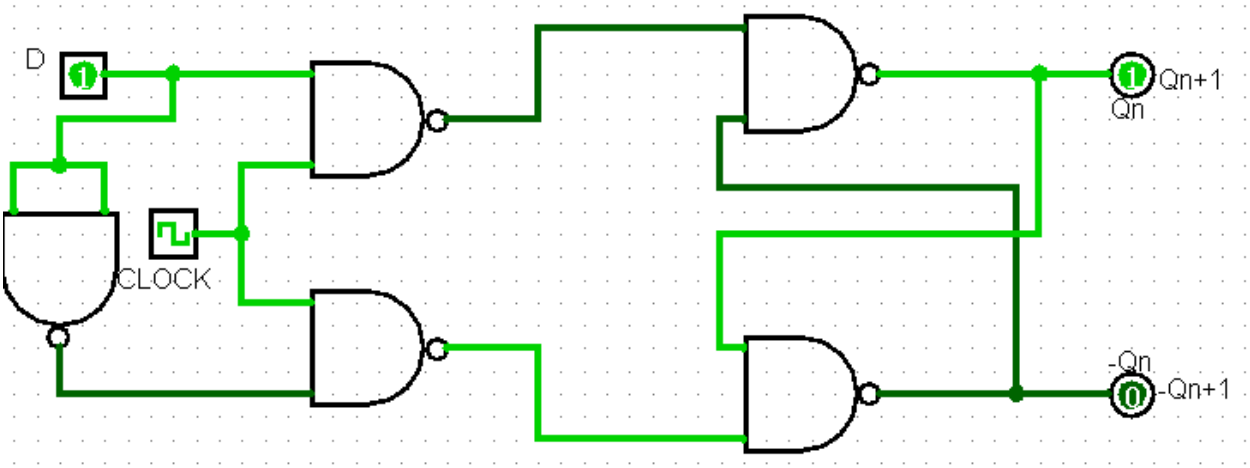
T	Qn	Qn+1
0	0	0
0	1	1
1	0	1
1	1	0

Conclusion: Here we realize the implementation of T Flip-Flop

Q.4(AIM)➔ Realization of the D FLIP-FLOP

Apparitor Use: MAC OS-bigSur, logisim

Source Code: (Screen Short):



Output (Screen Short):

D	Qn	Qn+1
0	X	0
1	X	1

Conclusion: Here we realize the implementation of D Flip-Flop