TFLip Flop

Q

Q

Q

Q

Q

Q

Q

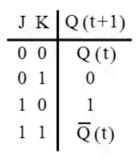
Q

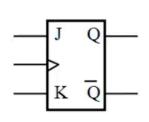
Positive-edge triggered

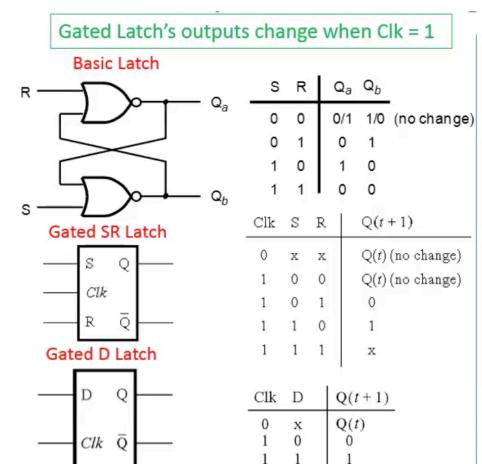
Jk Flip-Flop

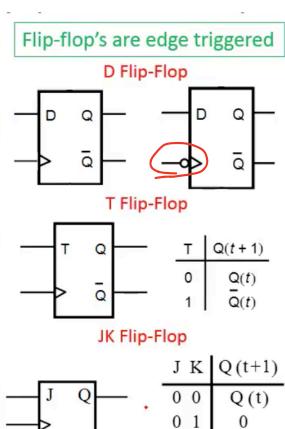
- A JK flip-flop combines the functions of an SR flip-flop and a T flip-flop.
- It behaves as an SR flip-flop where J = S and K = R for all combinations of J and K, ...
- ... except when J = K = 1, then it acts like a T-flip-flop.

J —	-D	$D = J Q + KQ$ \overline{Q}	Q
Clock —			Q







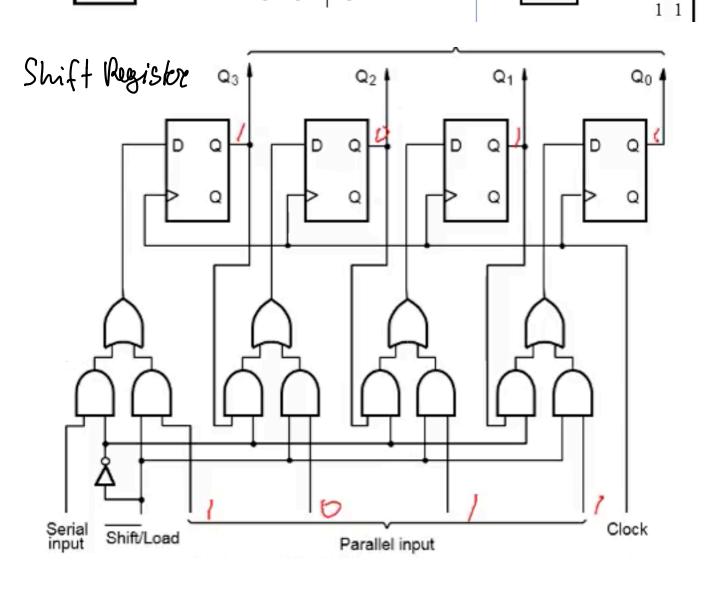


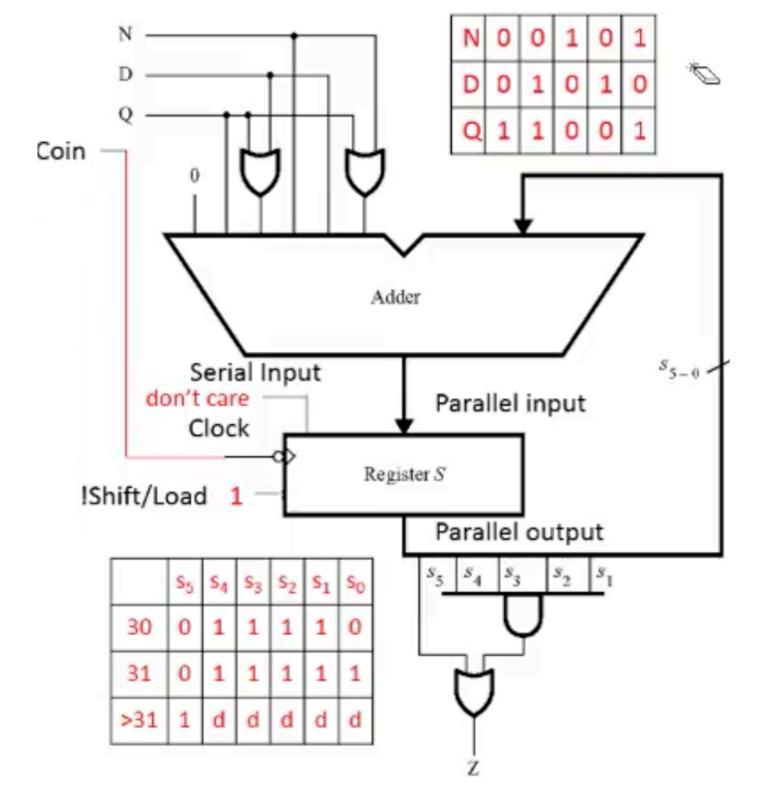
K

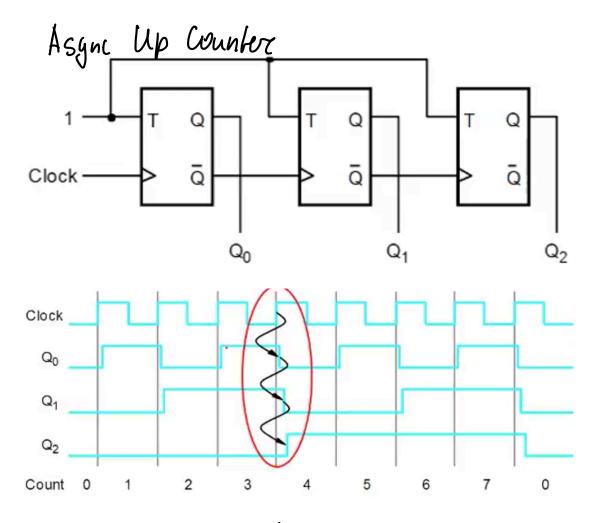
1 0

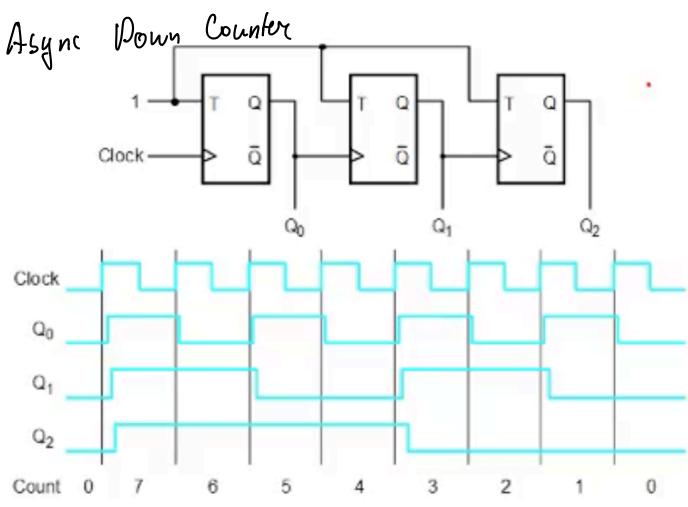
1

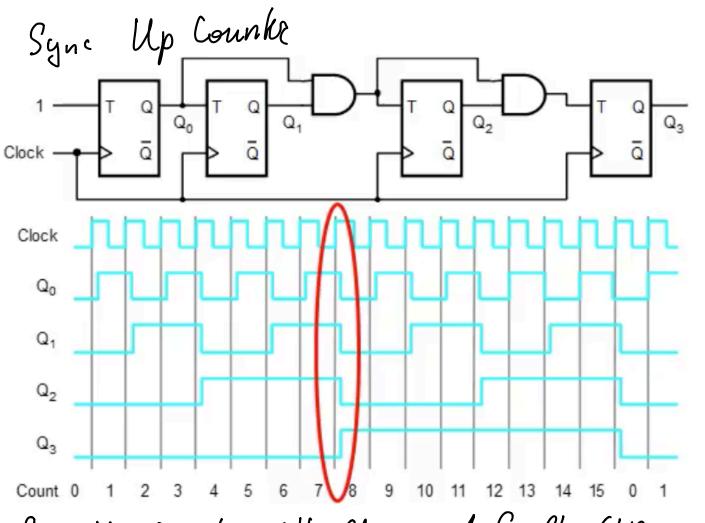
 $\overline{Q}(t)$



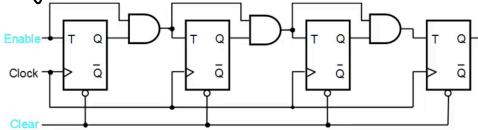




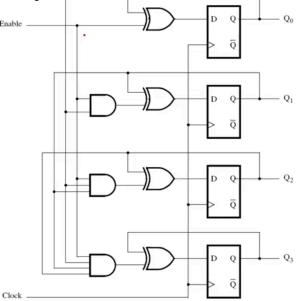












/AND+1XOR+1FF=309

Counter with Parallel load:

