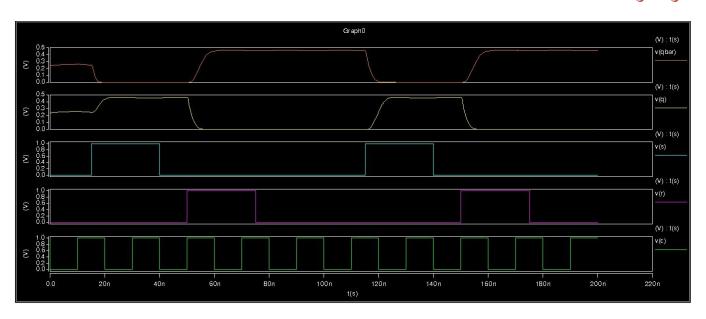
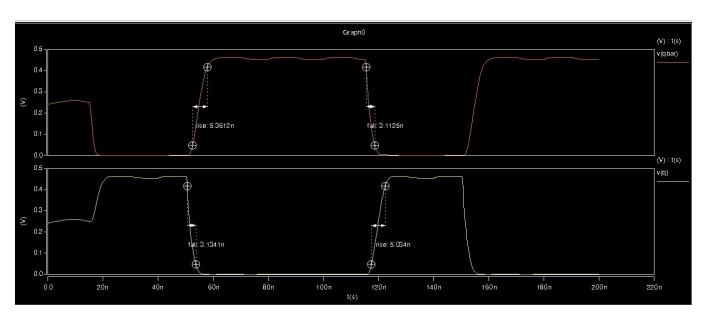
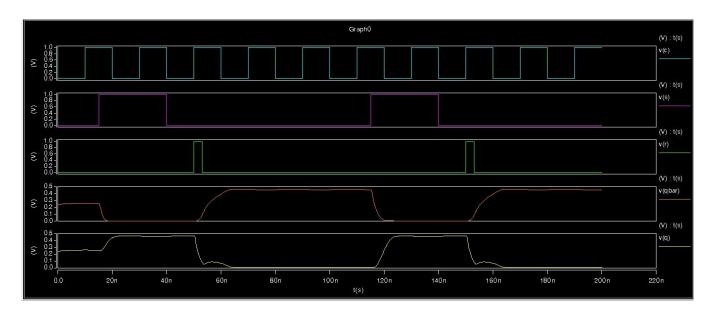
# سوال اول:



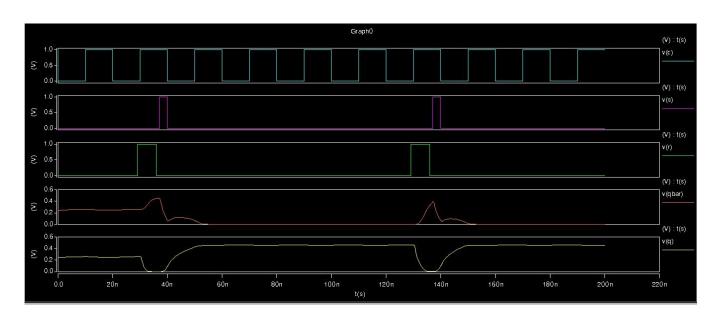
شکل 1: Inputs/ Outputs



شکل Fall and Rise Time :2



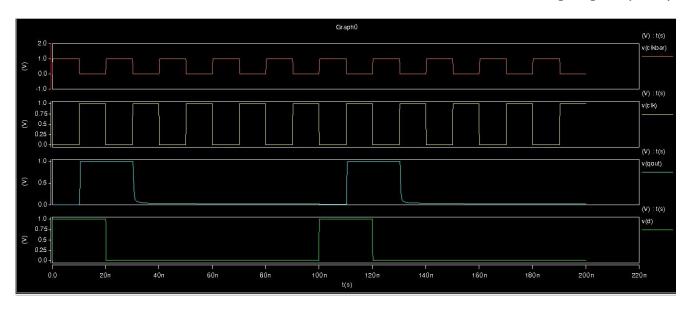
شکل 3: Glitch Effect in Output



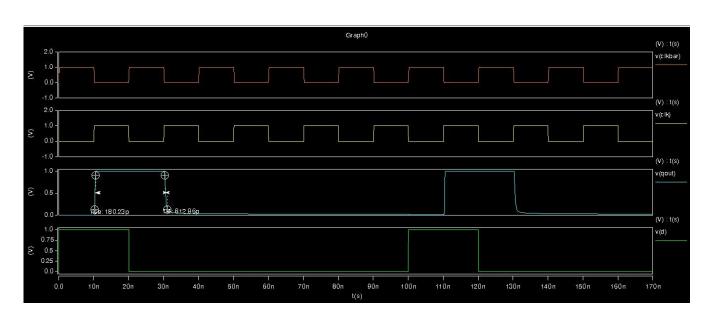
شکل Hold Time :4 و Setup Time

# سوال دوم:

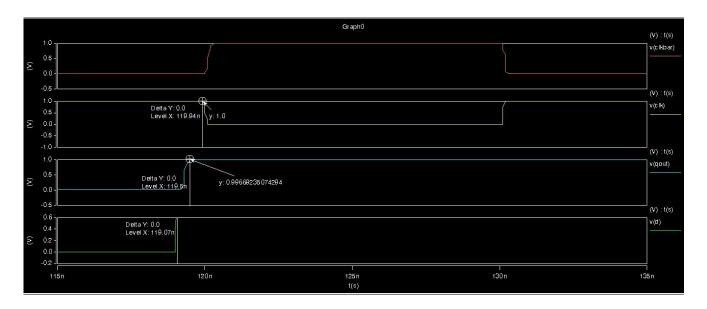
## Falling edge Flip-Flop



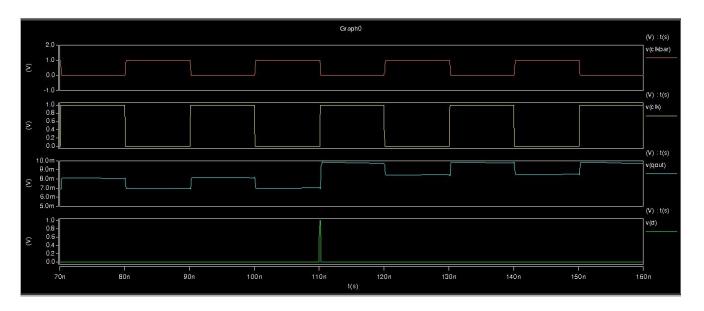
شکل Inputs/ Outputs :5



شکل Fall and Rise Time :6



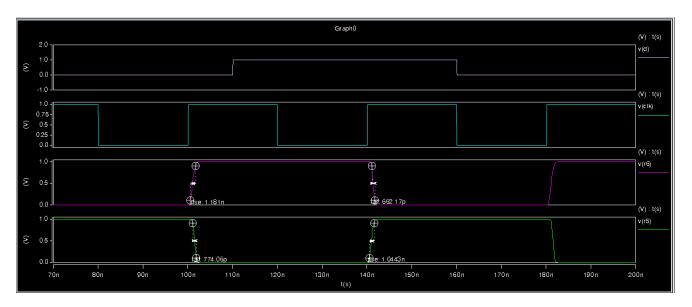
clock to Q / Setup Time / Hold Time :7 شکل



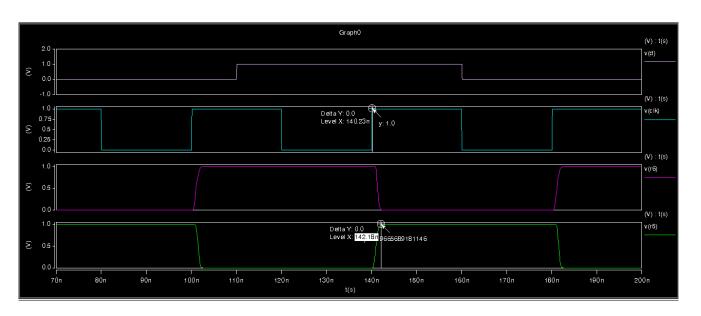
شکل Glitch Effect in Output :8

## سوال سوم:

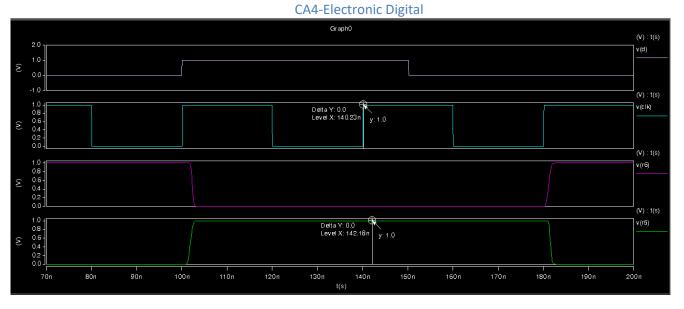
### Rising edge Flip-Flop



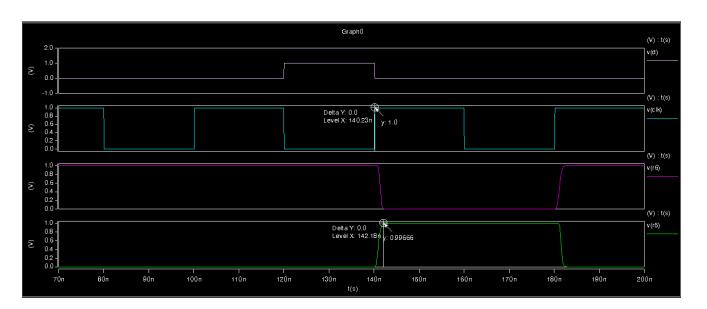
شكل Fall and Rise Time :9



شکل 10: clock to Q



: Setup time =0 شكل



شکل Hold Time=0