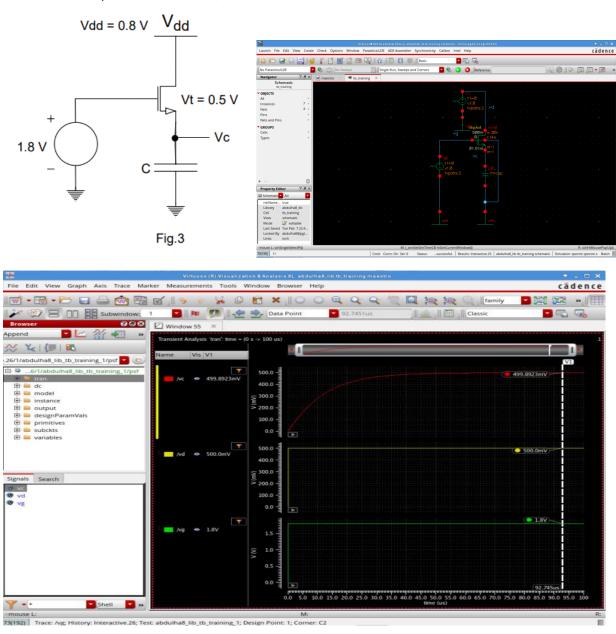
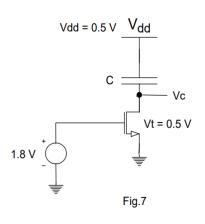
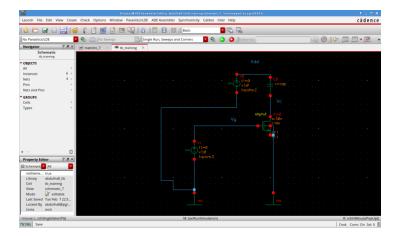
MOSFET with Capacitor: 3, 7, 11, 15, 19, 23, 25-30

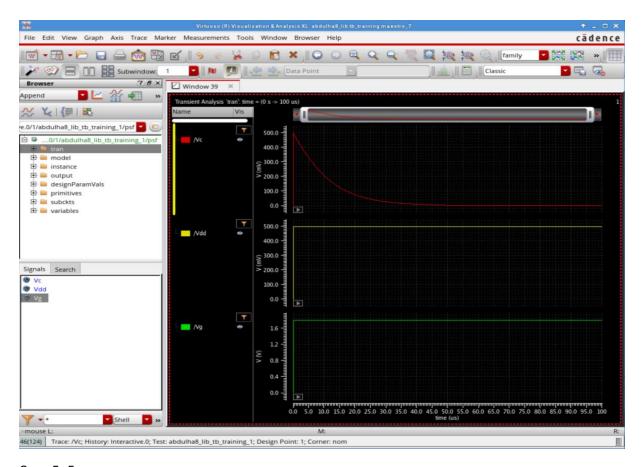


Cap= 5nF

Q-7: Initially capacitor C is discharged. Find the value of Vc at steady state. Draw the waveform of Vc vs Time.







Cap= 5nF

Q-11: Initially capacitor C is charged to 1.8 V. Find the value of Vc at steady state. Draw the waveform of Vc vs Time.

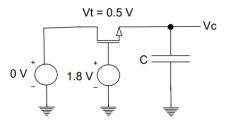
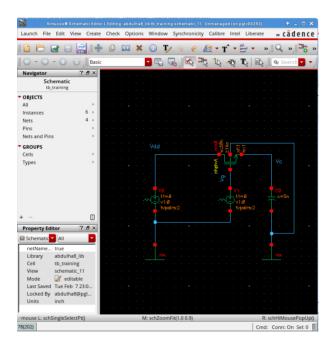
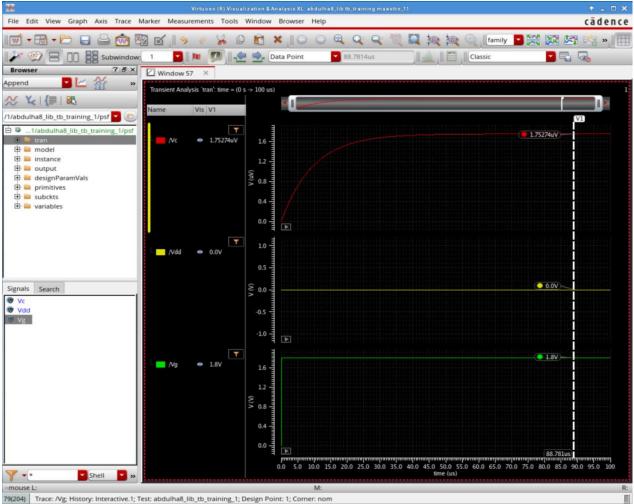
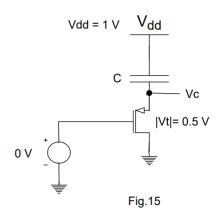


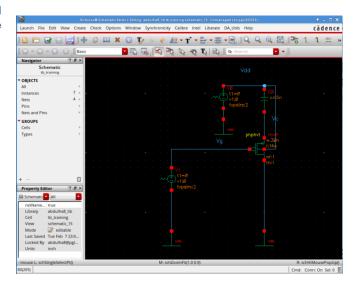
Fig.11

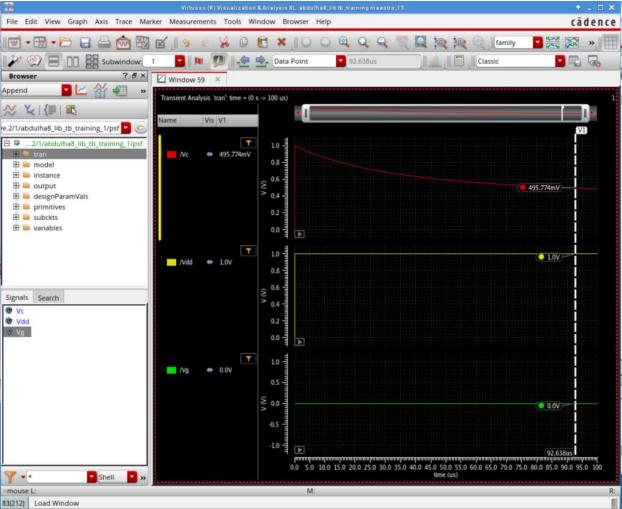




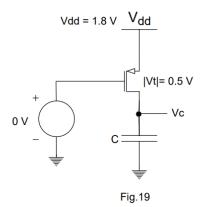
Q-15: Initially capacitor C is discharged. Find the value of Vc at steady state. Draw the waveform of Vc vs Time.

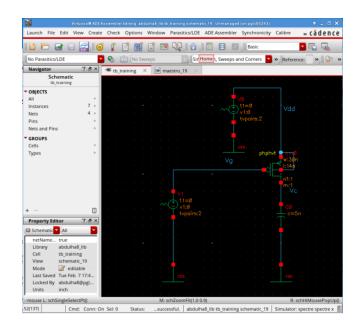


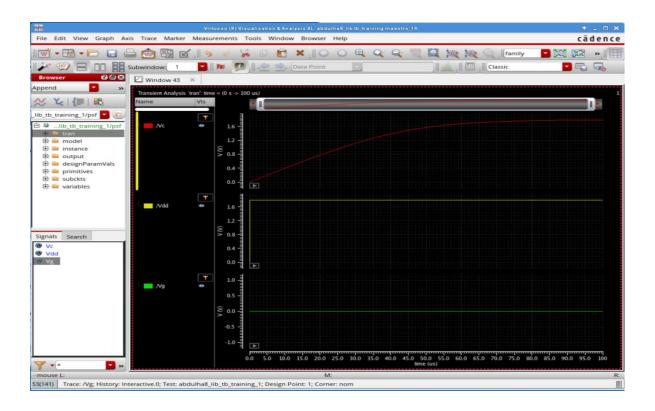




Q-19: Initially capacitor C is discharged. Find the value of Vc at steady state. Draw the waveform of Vc vs Time.







Q-23: Initially capacitor C is charged to 1.8 V. Find the value of Vc at steady state. Draw the waveform of Vc vs Time. Assume for PMOS higher potential terminal is source

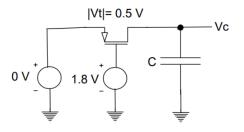
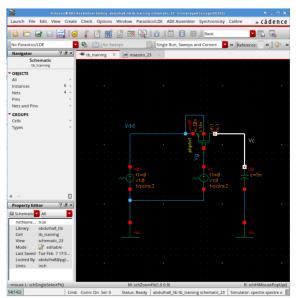
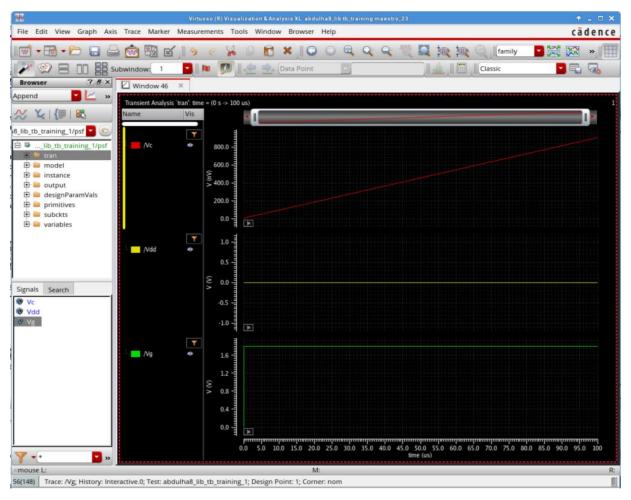


Fig.23





Q-25: Initially capacitor C is discharged. Find the value of Vc and Va at steady state.

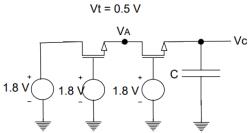
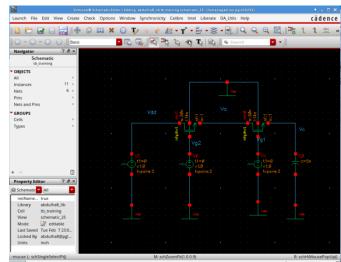
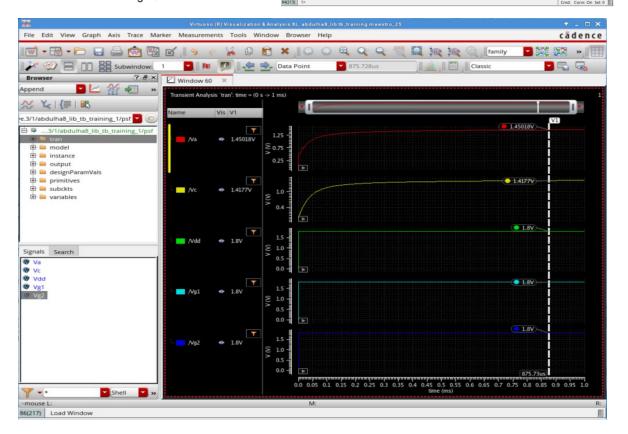
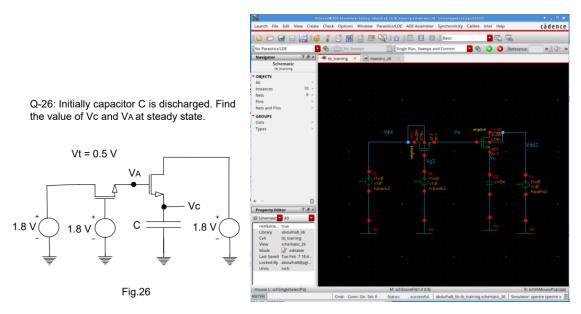
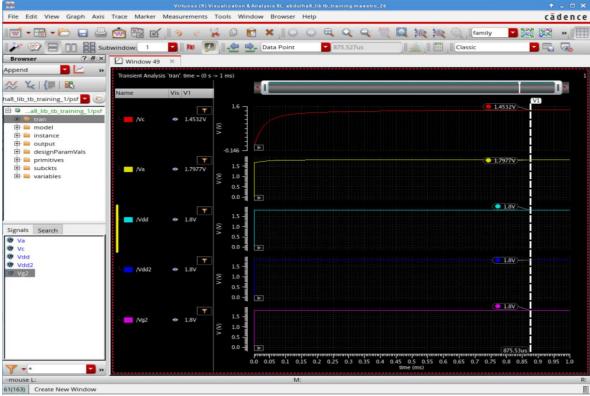


Fig.25









Q-27: Initially capacitor C is discharged. Find the value of Vc and Va at steady state.

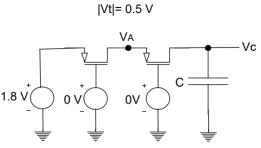
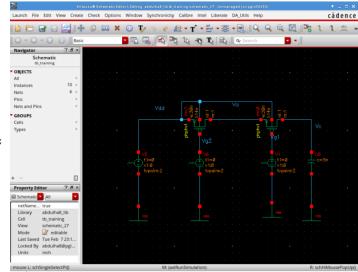
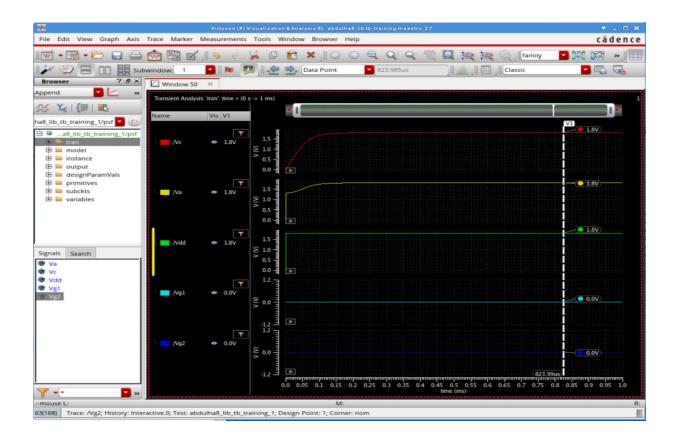
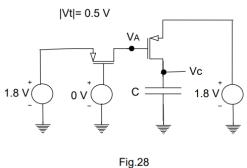


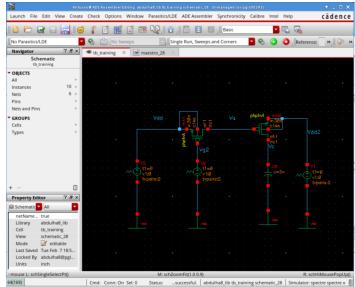
Fig.27

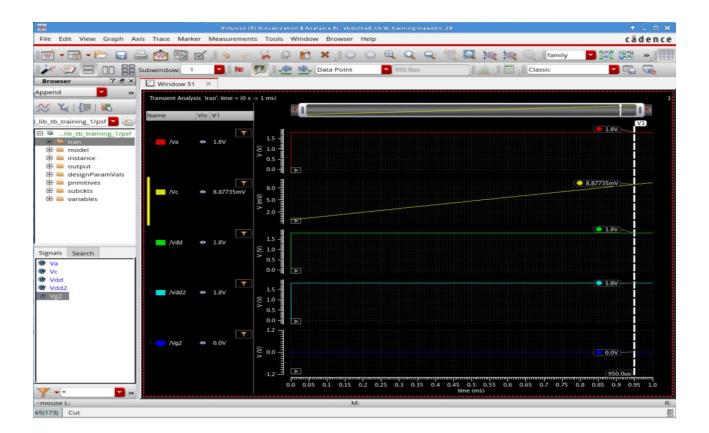


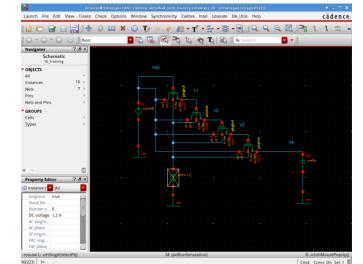


Q-28: Initially capacitor C is discharged. Find the value of Vc and Va at steady state.









Q-29: Initially capacitor C is fully charged to 1.8 V. Find the value of V1, V2, V3 and V4 at steady state.

