ASSIGNMENT NUMBER: 2

VLSI Design and Technology
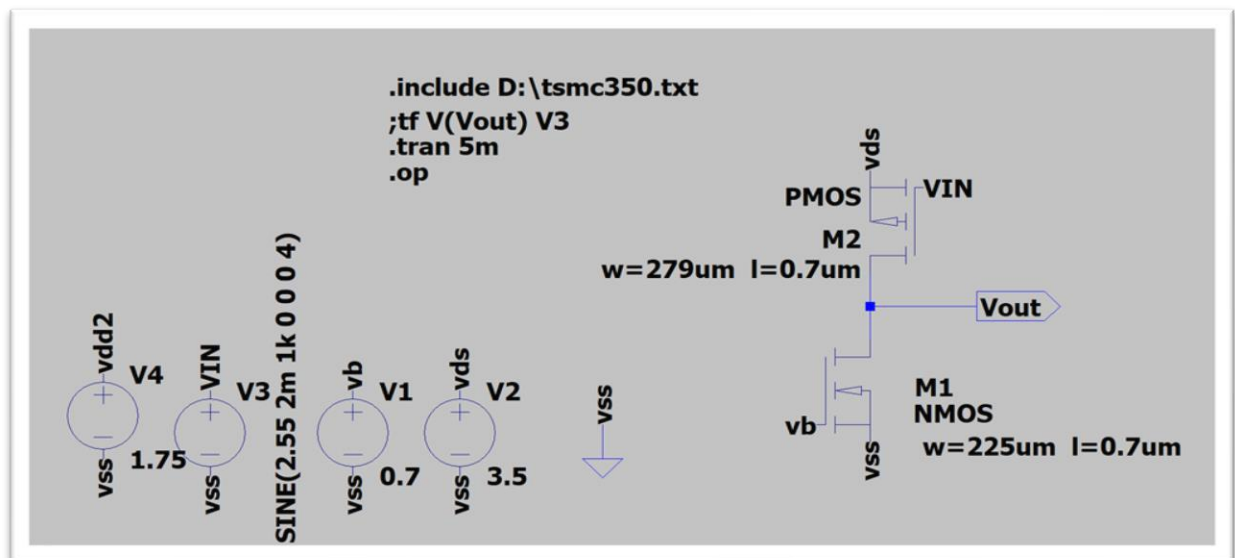
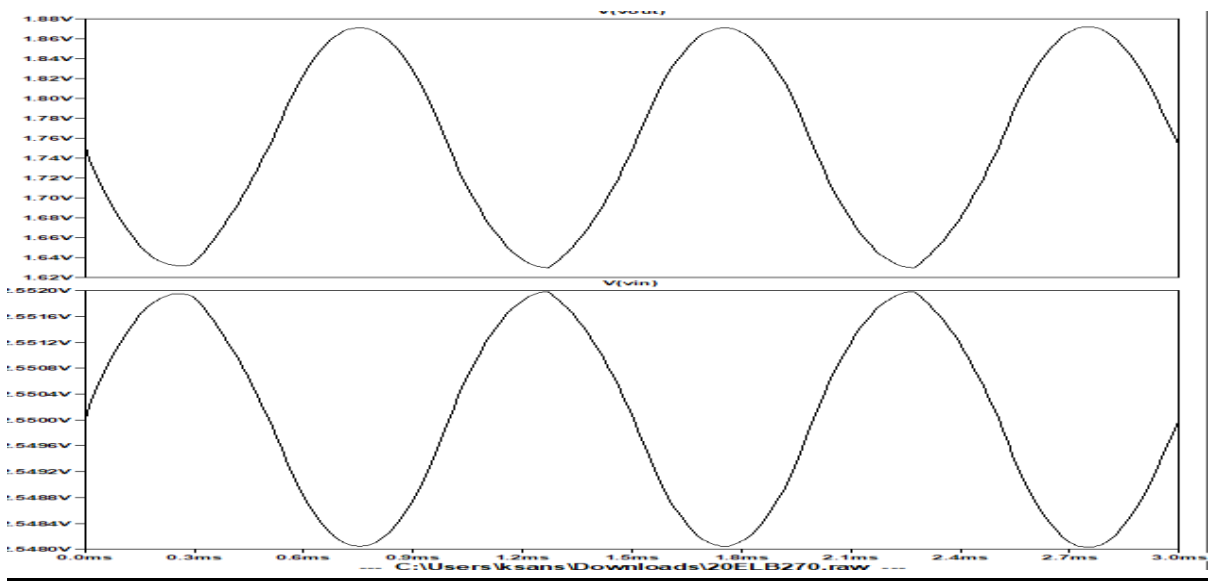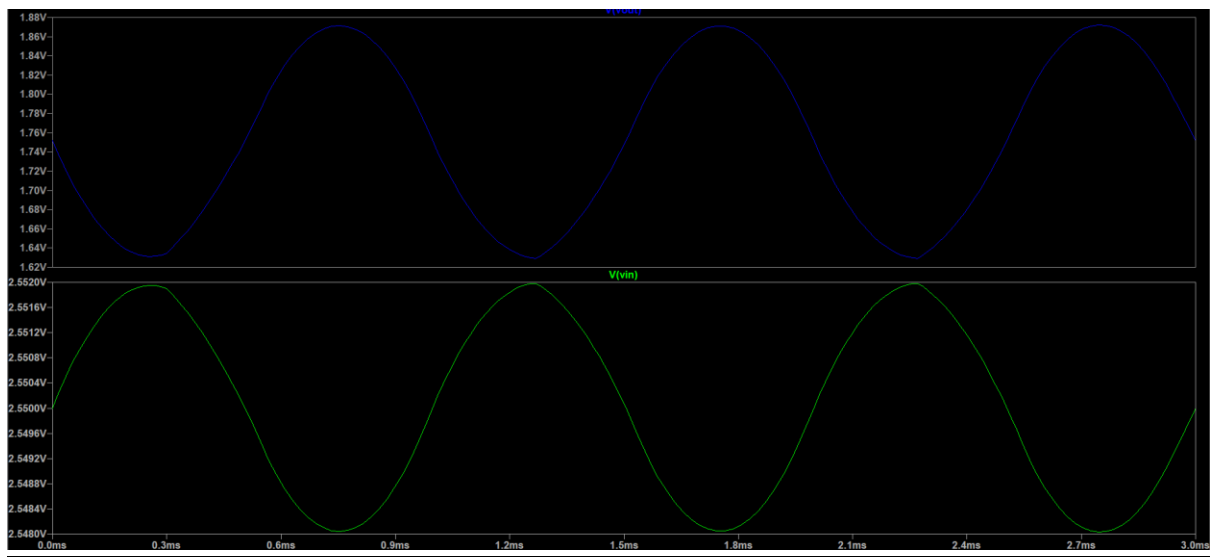## Name: SANSKRITI
Faculty Number: 20ELB270
Enrolment Number: GK8667
Serial Number :36

Schematic:

Transient analysis waveform:

Operation point:

```
* C:\Users\ksans\Downloads\20ELB270.asc                                    ✕
        --- Operating Point ---
V(vout):        1.75198         voltage
V(vb):          0.7             voltage
V(vds):         3.5             voltage
V(vin):         2.55            voltage
V(vdd2):        1.75            voltage
Id(M2):         -0.000357997    device_current
Ig(M2):         -0              device_current
Ib(M2):         1.75802e-012    device_current
Is(M2):         0.000357997     device_current
Id(M1):         0.000357997     device_current
Ig(M1):         0               device_current
Ib(M1):         -1.76198e-012   device_current
Is(M1):         -0.000357997    device_current
I(V4):          0               device_current
I(V3):          0               device_current
I(V2):          -0.000357997    device_current
I(V1):          0               device_current
```

```
        --- Transfer Function ---

Transfer_function:              -61.3964        transfer
V3#Input_impedance:             1e+020          impedance
Output_impedance_at_V(vout):    16106.9         impedance
```