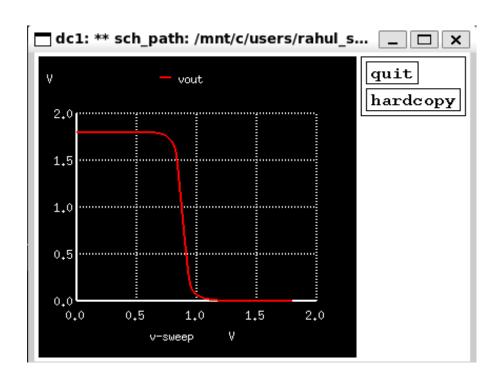
Assignemnt\_1 EE671 Name: Rahul Lande Roll No: 22B1822

## Q1)

Q1)	
INVERTER DESIGN PARAMETER	VALUE (in $\mu m$ )
PMOS WIDTH	1.273
PMOS LENGTH	0.15
NMOS WIDTH	0.4
NMOS LENGTH	0.15
INVERTER DYNAMIC CHARACTERISTIC	VALUE
RISE TIME tr (in ps)	18.16
FALL TIME tp (in ps)	18.16
PROPAGATION DELAY tp (in ps)	22.36
INVERTER STATIC CHARATERISTIC	VALUE (in V)
Vih	0.997
ViL	0.762
NMh	0.803
NMI	0.762
Vm	0.867



## Q2)

INVERTER DESIGN PARAMETER	VALUE (in μm )
PMOS WIDTH	2.546
PMOS LENGTH	0.15
NMOS WIDTH	0.8

NMOS LENGTH	0.15
INVERTER DYNAMIC CHARACTERISTIC RISE TIME tr (in ps) FALL TIME tp (in ps) PROPAGATION DELAY tp (in ps)	VALUE 11.59 11.99 18.06
INVERTER STATIC CHARATERISTIC Vih	VALUE (in V) 1.023
ViL	0.7707
NMh	0.777
NMI	0.7707

