NAME- ASHUTOSH ARDU

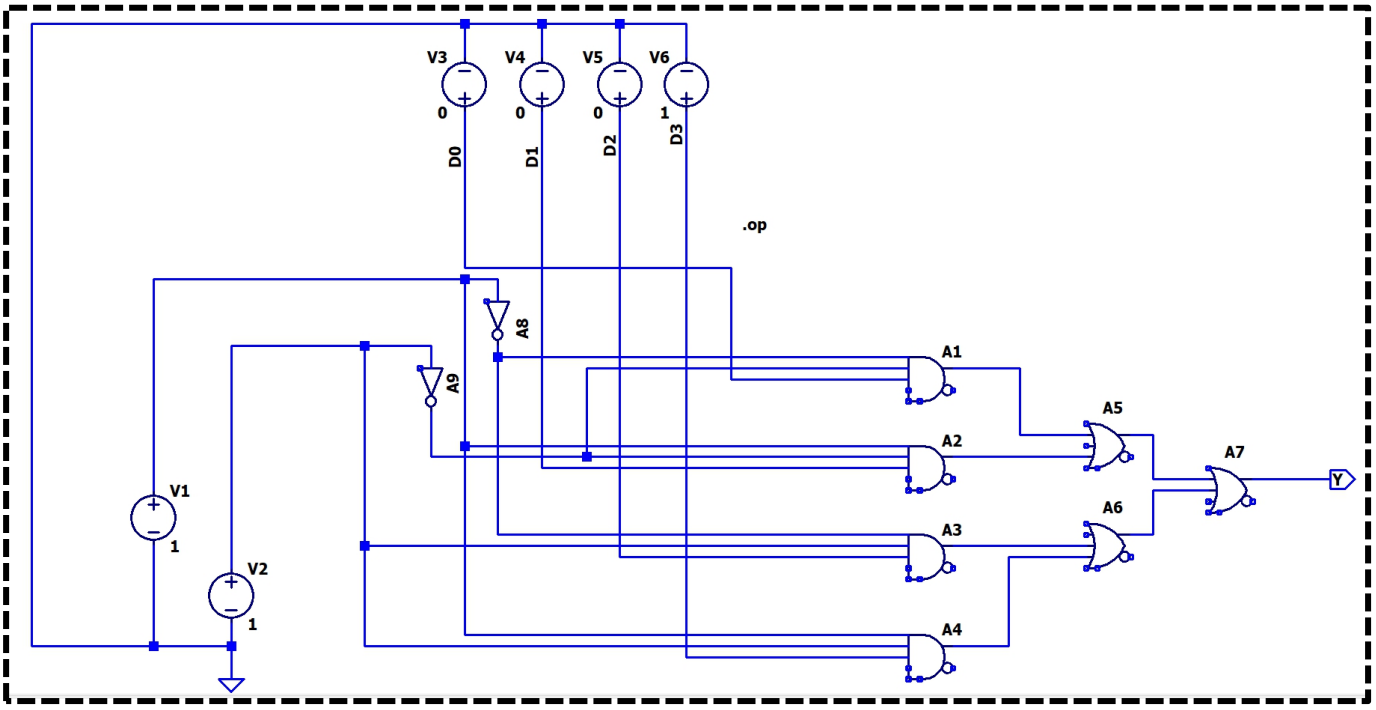
REG NO.- 20BRS1262

DATE- 26-04-2021

CSE1003-LAB7

MULTIPLEXER

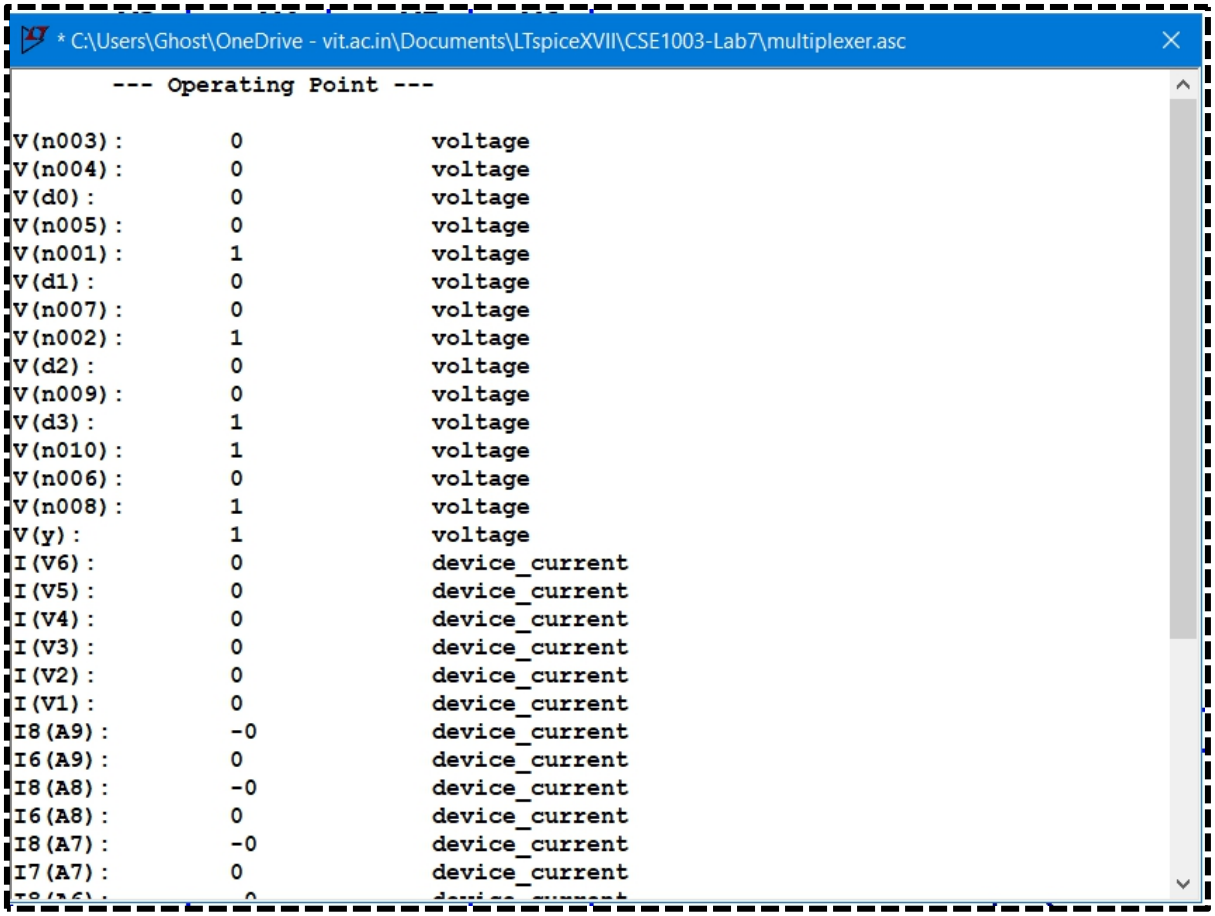
DIAGRAM



OUTPUT

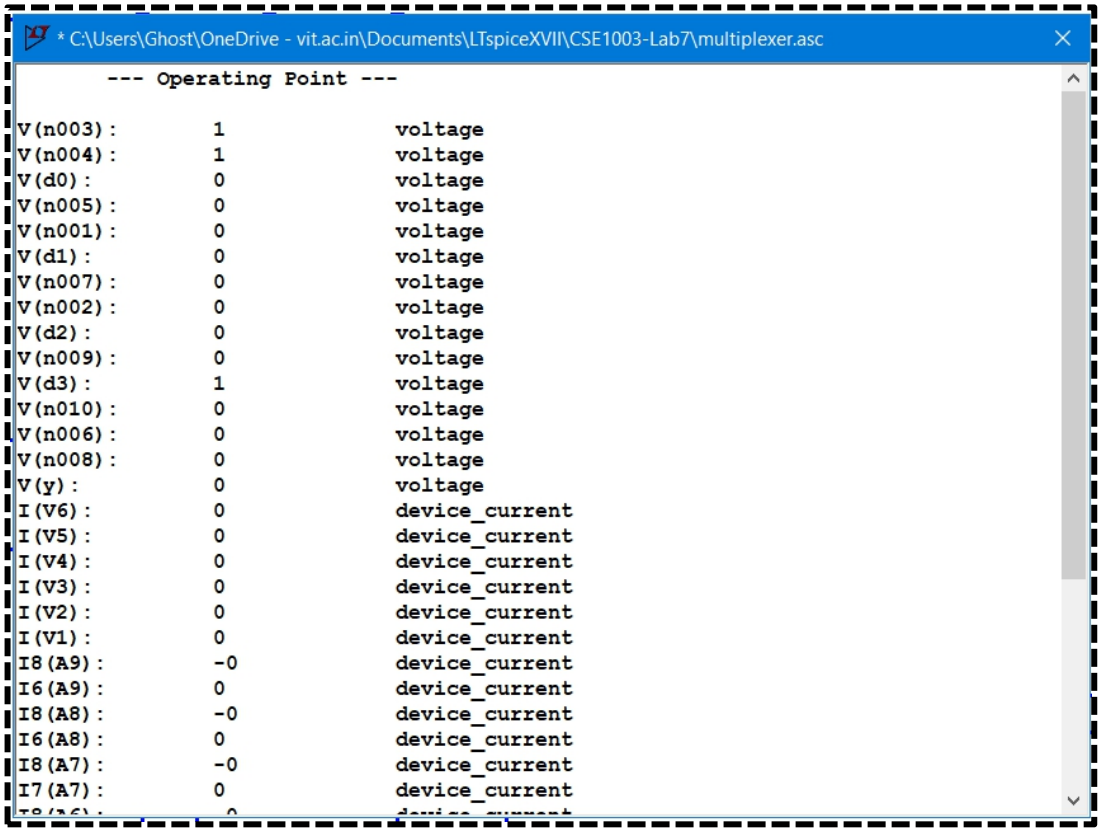
V1=1, V2=1 THEN Y=1

WHICH MEANS Y=D3



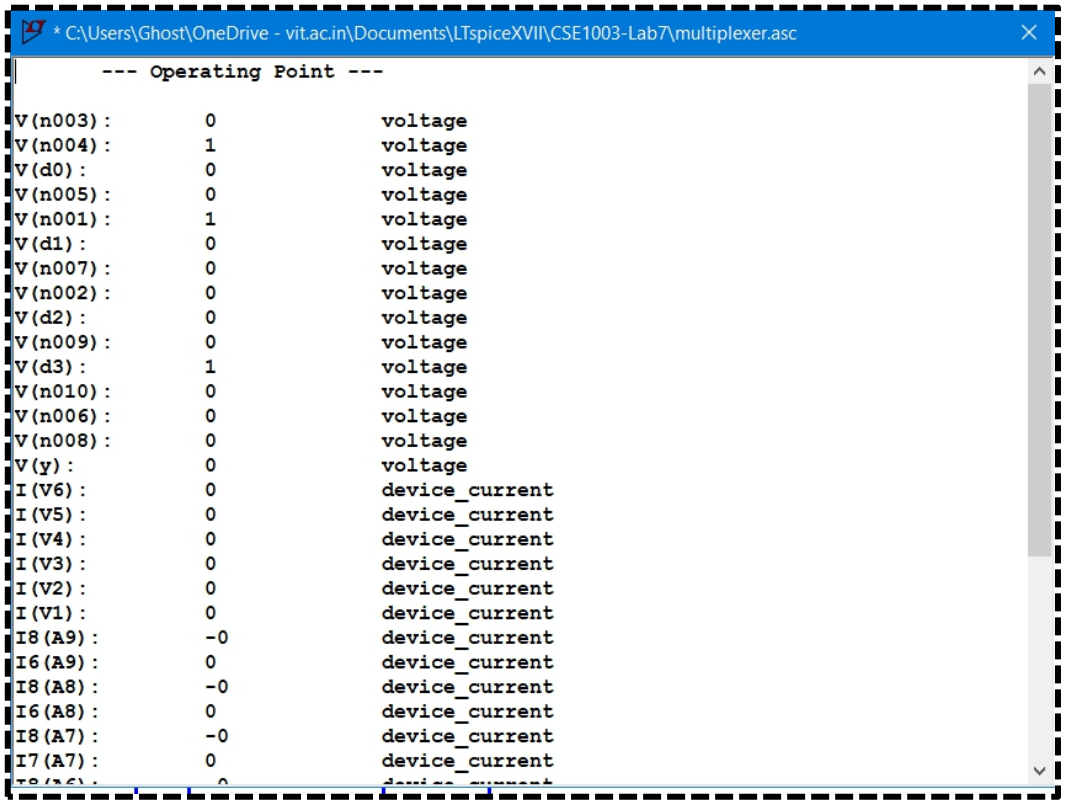
V1=0, V2=0 THEN Y=0

WHICH MEANS Y=D0



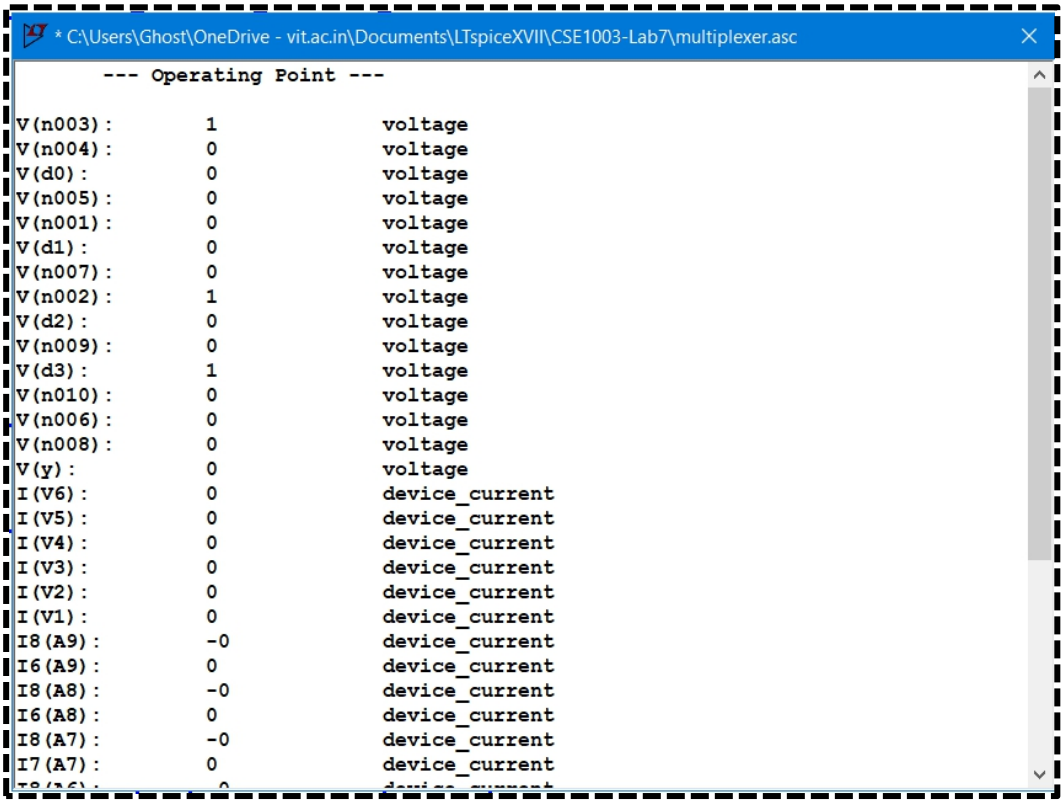
V1=1, V2=0 Y=0

WHICH MEANS Y=D2



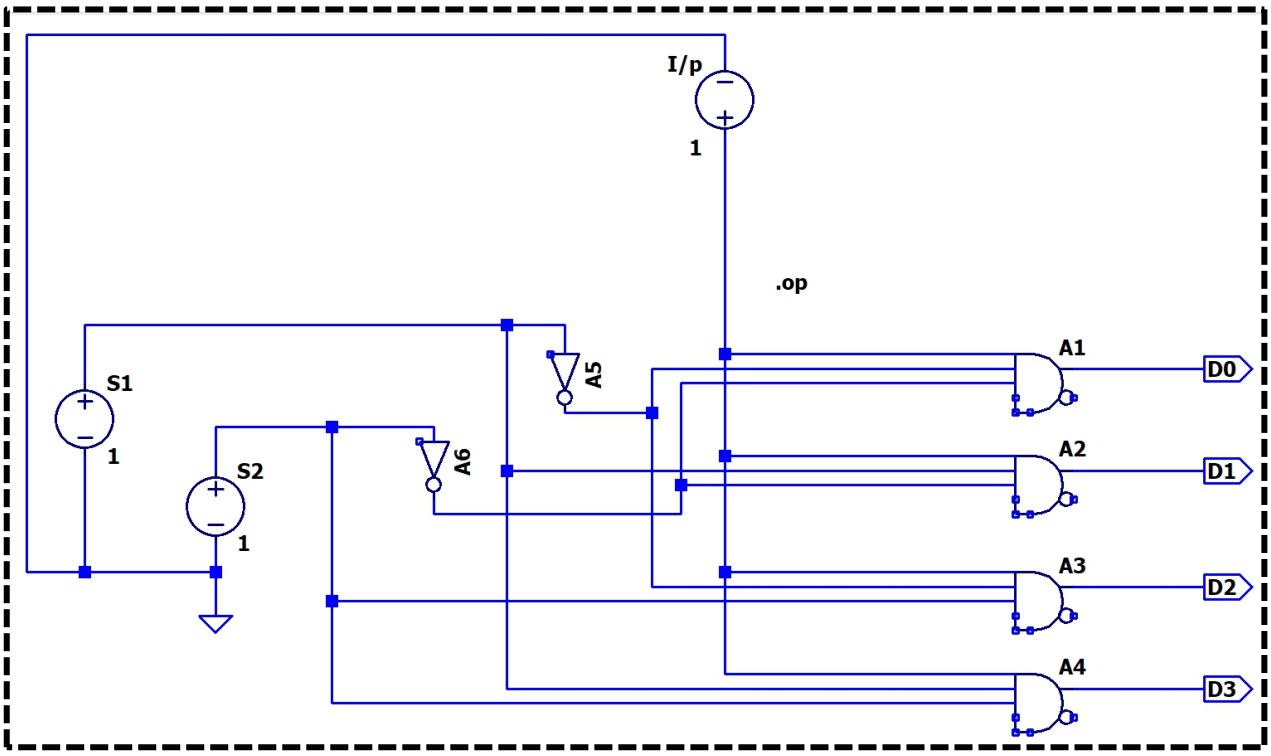
V1=0, V2=1 THEN Y=0

WHICH MEANS Y=D1



DEMULTIPLEXER

DIAGRAM



OUTPUT

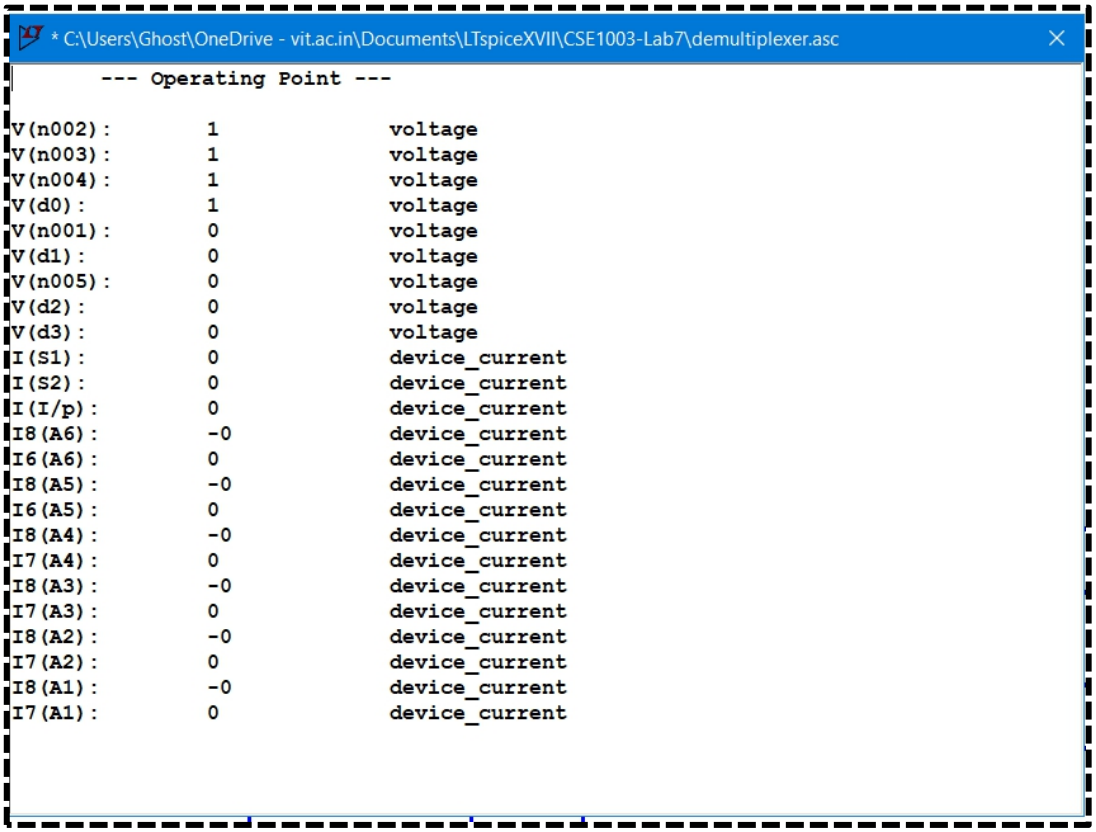
S1(S1)=1, S2(S0)=1 THEN Y(OUTPUT LINE)=D3

* C:\Users\Ghost\OneDrive - vit.ac.in\Documents\LTspiceXVII\CSE1003-Lab7\demultiplexer.asc

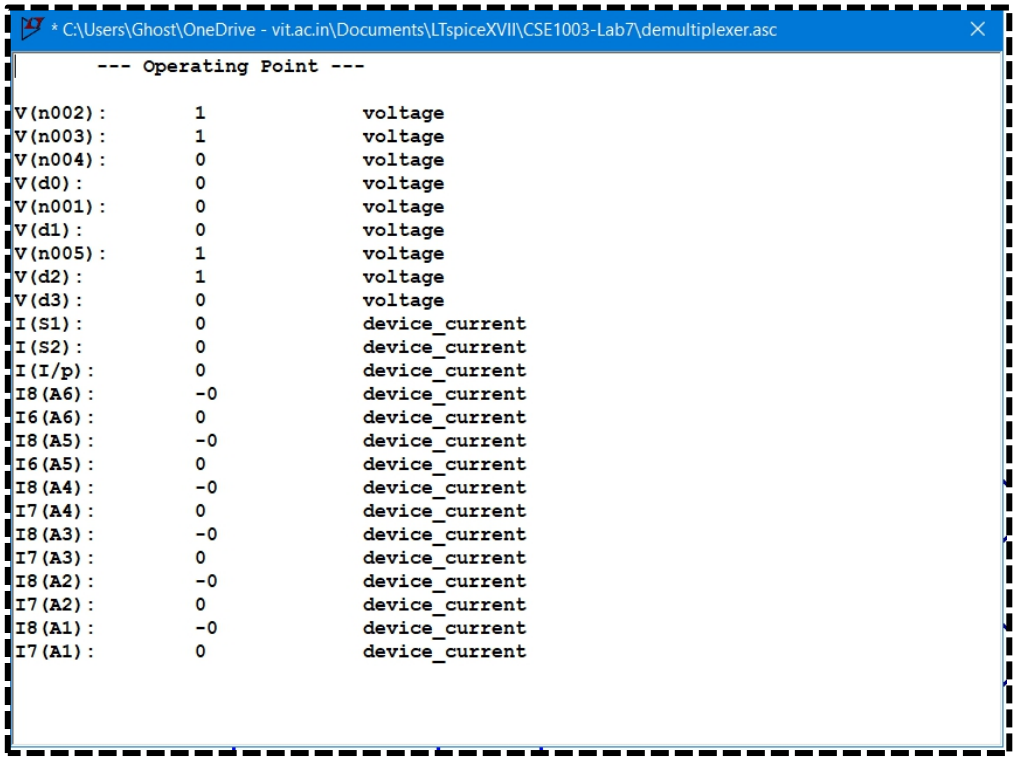
--- Operating Point ---

V(n002):	1	voltage
V(n003):	0	voltage
V(n004):	0	voltage
V(d0):	0	voltage
V(n001):	1	voltage
V(d1):	0	voltage
V(n005):	1	voltage
V(d2):	0	voltage
V(d3):	1	voltage
I(S1):	0	device_current
I(S2):	0	device_current
I(I/p):	0	device_current
I8(A6):	-0	device_current
I6(A6):	0	device_current
I8(A5):	-0	device_current
I6(A5):	0	device_current
I8(A4):	-0	device_current
I7(A4):	0	device_current
I8(A3):	-0	device_current
I7(A3):	0	device_current
I8(A2):	-0	device_current
I7(A2):	0	device_current
I8(A1):	-0	device_current
I7(A1):	0	device_current

S1=0, S2=0 THEN Y=D0



S1=0, S2=1 THEN Y=D2



S1=1, S2=0 THEN Y=D1