INSTRUCTIONS

DATA(A)

Experiment to perform logic of 1 to 4 DEMUX on kit

Power Supply

V_{cc}: +5V

14 13 12 11 10 9 8

VCC

7404 HEX INVERTER IC

GND

1 2 3 4 5 6 7

Vcc

14 13 12 11 10 9 8

A   Y   A B   C   Y

7411(NANDGate)

B   C   A   B   C   Y

1 2 3 4 5 6 7

GND

Vcc

14 13 12 11 10 9 8

A   Y   A B   C   Y

7411(NANDGate)

B   C   A   B   C   Y

1 2 3 4 5 6 7

GND

R1:330 ohm
LED

GND

SELECT LINE B

SELECT LINE C

GND

GND

R1:330 ohm   LED 1

R2:330 ohm   LED 2

R3:330 ohm   LED 3

R4:330 ohm   LED 4

GND
OUTPUT(Yo)

GND
OUTPUT(Y1)

GND
OUTPUT(Y2)

GND
OUTPUT(Y3)

TRUTH TABLE   ADD   PRINT

Serial No.	DATA	Yo	Y1	Y2	Y3
1	D	D=0	0	0	0
2	D	D=1	0	0	0
3	D	0	D=0	0	0
4	D	0	D=1	0	0
5	D	0	0	D=0	0
6	D	0	0	D=1	0
7	D	0	0	0	D=0
8	D	0	0	0	D=1