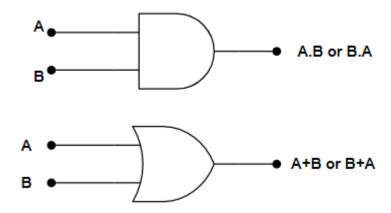


Fig. 1. Caption



# **ASSIGNMENT-1**

Name: Dulla Srinivas roll no: FWC22041

### PROBLEM STATEMENT:

state and Prove Commutative Law
The definition of commutative law states that when
we add or multiply two numbers then the resultant
value remains the same, even if we change the
position of the two numbers. Or we can say, the
order in which we add or multiply any two real
numbers does not change the result.

sollution:

## **Components:**

S.No	Component	Number
1	Arduino	1
2	Bread Board	1
3	Jumer Wires(M-M)	3

### **Procedure:**

1) First make the 2,3 digital pins of arduino as input pins and declare the 13 pin as output pin.

2)Write the given logic in code and upload in to the arduino.

**Truthtable:** A+B=B+A

A	В	A+B	B+A
0	0	0	0
0	1	1	1
1	0	1	1
_1	1	1	1

### Truthtable: A.B=B.A

A	В	AB	BA
0	0	0	0
0	1	0	0
1	0	0	0
1	1	1	1

link

:https://github.com/Dsrinivas-sudo?tab=repositories include; Ardunio.h;

int a:

int b;

int f:

int g;

int h:

int i;

void setup()

pinMode(2,INPUT);

pinMode(3,INPUT);

pinMode(13,OUTPUT);

pinMode(5,OUTPUT);

pinMode(6,OUTPUT);

pinMode(7,OUTPUT);

void loop()

a=digitalRead(2)

b=digitalRead(3)

f=a----b;

```
g=b—a;
h=ab;
i=ba;
digitalWrite(13,f);
digitalWrite(5,g);
digitalWrite(6,h);
digitalWrite(7,i);
Conclusion:
```

Hence have implemented the Absorption law of

boolean algebra in arduino and verified the outputs