**Boolean Algebra**

Boolean algebra is a division of mathematics that deals with operations on logical values and incorporates binary values.

**Addition:**

0 + 0 =0

0 +1 = 1

1+ 0 = 1

1 + 1 = 1

e.g.

A + 0 = A

A + 1 = 1

**Multiplication:**

0 X 0 = 0

0 X 1 = 0

1 X 0 = 0

1 X 1 = 1

e.g.

A x 0 = 0

A x 1 = A

**Negation:**

If A =1

Then = 0

If A = 0

Then = 1