## OPERATORS:

Operators in general are used to perform operations on values and variables.

## Types of Operators:

1. Arithmetic Operators  (+, -, *,  /, %)
2. Assignment operators  (=, +=, -=, *=, /=, %=)
3. Comparison operators  (==, !=, <=, >=)
4. Logical operators  (and, or, not)

## 1. Arithmetic Operators:

It used to perform basic mathematical operations like addition, subtraction, multiplication and division.

### Ex:

| | |
|---|---|
| a=5 | **output:** |
| b=10 | 15 |
| c=a+b | -5 |
| print(c) | 50 |
| c=a-b | 0.5 |
| print(c) | 5 |
| c=a*b | |
| print(c) | |
| c=a/b | |
| print(c) | |
| c=a%b | |
| print(c) | |

## 2. Assignment Operators:

It used to assign values to the variables.

**Ex:**

| | Output: |
|---|---|
| a = 20 | 20 |
| print(a) | 40 |
| a += 20 | 20 |
| print(a) | 400 |
| a -= 20 | 419430400 |
| print(a) | |
| a *= 20 | |
| print(b) | |
| a <<= 20 | |
| print(a) | |

**3. Comparison operators:**

In relational operator compares the values. It either returns True or False according to the condition.

**Ex:**

| | Output: |
|---|---|
| a=15 | False |
| b=10 | True |
| print(a == b) | True |
| print(a != b) | False |
| print(a >= b) | |
| print(a <= b) | |

**4. Logical Operators:**

It perform Logical AND, Logical OR and Logical NOT operations. It is used to combine conditional statements.

**Ex:**

```
a = True
b = False
 print(a and b)
 print(a or b)
 print(not a)
```

**Output:**

```
False
True
False
```