

- 1) Relational operator - $>$, $<$, $==$, $!=$
- 2) Arithmetic operator - $-$, $+$, $*$, $/$, $//$
- 3) Logical operator AND, OR, NOT
- 4) Identity Operator $is/ not in$
- 5) Membership operator, in , $not in$
- 6) Assignment operator $=$
- 7) Arithmetic Assignment operator $--$, $++$
- 8) Shift operator, $<<$, $>>$
- 9) Bitwise operator - $\&$, \wedge , $!$

Comment: Non executing statements

In python we create comment with the help of $\#$ symbol

```
print(val1, val2, val3, sep=" ", end=" ")
```

sep (default value) = space

end (default value) = $\backslash n$ (new line/next line)

Data types: to identify the type of data/value and associated operations

`type()`: it is used to check the data type of object

```
>>> A=100
      type(A)
      <class 'int'>
```

```
>>> A=100.0
      type(A)
      <class 'float'>
```

`id()`: it gives the memory location/address of object

```
>>> A=60
      id(A)
      14072726613008
```

```
>>> A="hello"
      id(A)
      2725003730096
```

for output / display

print(): it is used to display

input(): it is used to take input from user

Note: input() function takes input in a form of string only

Type Casting functions

1) int(): it convert the value into integer

2) float(): it convert the value into float

3) str(): it convert the value into string

Program 1

Q1) WAP to input your name and display

```
Name = input("Enter your name")
```

```
print("My name is", Name)
```

Q2) Sum of two no.

Q3) Convert temp from Celsius to Fahrenheit

Hint $F = (C * 9/5) + 32$ (H.W) convert (F) to (C)

↓ ↓
Fahrenheit Celsius

Q4) Add remainder of 8/3 to the product of 8 and 3

Ans: $8 \% 3 + 8 * 3$

(ii) Find the sum of square roots of 8 and 43

$8^{** (1/2)} + 43^{** (1/2)}$

... 18 and 26