```
#Comment in Python - Non readable code represented by '#'
a = 5
print(a) #output = 5
#Data Types -
#! Int => Integer Numbers
print(type(a))
#output = <class 'int'>
#It means type of 'a' is "integer".
<class 'int'>
#! Float => Decimal Numbers
b = 2.5
print(b)
print(type(b))
                  #Output => <class 'float'>
                   #Output => float
type(b)
2.5
<class 'float'>
float
#! String => Alphabets
c = "Coding Ideas!"
print(c)
print(type(c)) #Output => <class 'str'>
Coding Ideas!
<class 'str'>
#! Boolean => True or False
a = 5.5
print(a > 5) #Output => True
b = a < 5
print(b)
             #Output => False
print(type(b)) #Output => <class 'bool'>
True
False
<class 'bool'>
#Logical Operators in Python => <,>,>=,<=
```

```
#Mathematical Operators
#! Additional Operator (+)
a = 10
b = 15
             #0uput => 25
print(a+b)
c = a+b
             #0uput => 25
print(c)
#! Subtraction Operator (-)
print(a-b)
           #0utput => -5
d = b - a
print(d)
          #0utput => 5
#! Division Operator (/)
print(a/b)
              #0utput => 0.66666
e = b / a
           #0utput => 1.5
print (e)
print(15 / 2) #Output => 7.5
#! Multiplication Operator
print (a * b) \#0utput => 150
m = a * b
               #0utput => 150
print(m)
# !Modulus or Modulo Operator => Is used for printing the remainder -
print(a % b)
              #0utput => 10
n = b % a
print(n)
              #0utput => 5
print(15 % 6) #0utput => 3
#! Floor division - // => Whole number and cuts out all the other
decimals
print(36 // 7) #0utput => 5
# Difference between / and //
print(19 / 3) #0utput => 6.3333333
print(19 // 3) #0utput => 6
#! Exponentiation Operator - Gives out the power of the left number **
x = 10
y = 3
print(x ** y) #0utput => 1000
z = x ** y
print(z)
             #0utput => 1000
```

```
print( 2 ** 8) #Output => 256
print(7 ** 3) #Output => 343
25
25
- 5
5
1.5
7.5
150
150
10
5
3
5
6.333333333333333
1000
1000
256
```