```
In [5]: 5+5
Out[5]: 10

In [7]: 10-2
Out[7]: 8
```

It's Return floating output.'

```
In [9]: 8/4
Out[9]: 2.0
```

// return integer output

```
In [11]: 8//4
Out[11]: 2
```

it's retunr remainder value'

```
In [12]: 10%5
Out[12]: 0

In [13]: "Hitesh"
Out[13]: 'Hitesh'

In [15]: print("Hitesh")
         Hitesh

In [16]: 8+2*3
Out[16]: 14
```

BODMASS Rule

```
In [17]: (8+2)*3
Out[17]: 30

In [18]: print("Hitesh's Laptop")
         Hitesh's Laptop

In [19]: print('hitesh "Laptop"')
         hitesh "Laptop"

In [25]: print('hitesh\'s "laptop"')
         hitesh's "laptop"

In [27]: "hitesh"*3
Out[27]: 'hiteshhiteshhiteshh'

In [29]: print('c:\Hitesh\ndocs')
         c:\Hitesh
         docs

In [35]: print(r'c:\Hitesh\ndocs')
         c:\Hitesh\ndocs

In [36]: x=5
Out[36]: 10

In [38]: y=3

In [39]: x+y
Out[39]: 8

In [40]: x=10
Out[40]: 15

In [41]: _+5
Out[41]: 20

In [45]: name="Hitesh"

In [46]: name
Out[46]: 'Hitesh'

In [47]: name="yerekar"
Out[47]: 'Hiteshyerekar'

In [48]: name[3]
Out[48]: 'e'

In [49]: name[2:5]
Out[49]: 'tes'

In [50]: len(name)
Out[50]: 6

In [51]: type(name)
Out[51]: str
```

In Python id() function return the address of variable.

```
In [53]: id(name)
Out[53]: 869194704072

In [54]: age=50

In [55]: age
Out[55]: 50

In [57]: id(age)
Out[57]: 1566633968

In [58]: str=name

In [59]: str
Out[59]: 'Hitesh'

In [60]: id(name)
Out[60]: 869194704072

In [61]: id(str)
Out[61]: 869194704072

In [63]: a="Hitesh"
         print(a)
         Hitesh

In [64]: id(a)
Out[64]: 869194704072

In [65]: name ="Sannu"
         print(name)
         Sannu

In [66]: id(name)
Out[66]: 869210576632

In [67]: type(a)
Out[67]: str
```

Convrting data type

```
In [69]: a=5
         print(a)
         type(a)
         5
Out[69]: int

In [70]: b=5.5
         print(b)
         type(b)
         5.5
Out[70]: float

In [71]: c=int(b)
         print(c)
         type(c)
         5
Out[71]: int

In [72]: d=complex(a,c)
         print(d)
         type(d)
         (5+5j)
Out[72]: complex

In [75]: name="hitesh"
         print(name)
         bool(name)
         type(name)
         hitesh
Out[75]: str

In [76]: bool=a>c
         print(bool)
         type(bool)
         False
Out[76]: bool
```

Arithematic Operator

```
In [78]: x=10
         y=5
         print(x+y)
         print(x-y)
         print(x/y)
         print(x*y)
         15
         5
         2.0
         50
```

Assignment Operator

```
In [79]: name="Hitesh"
         name
Out[79]: 'Hitesh'

In [80]: a,b=10,20
         print(a)
         print(b)
         10
         20
```

Unary Operator

```
In [81]: n=10
         n
Out[81]: 10

In [82]: -n
Out[82]: -10

In [85]: n=-n
         n
Out[85]: -10
```

Relational Operator

```
In [86]: a>b
Out[86]: False

In [87]: a<b
Out[87]: True

In [88]: a==b
Out[88]: False

In [89]: a<=b
Out[89]: True

In [90]: a>=b
Out[90]: False

In [91]: a!=b
Out[91]: True
```

Logical Operator

```
In [92]: a<6 and b>4
Out[92]: False

In [93]: a<6 or b>4
Out[93]: True
```

Number System Conversion

```
In [94]: bin(25)
Out[94]: '0b11001'

In [95]: oct(25)
Out[95]: '0o31'

In [96]: hex(25)
Out[96]: '0x19'

In [97]: ~12
Out[97]: -13

In [ ]:

In [ ]:
```