```
In [1]: a=5
         b=4
 In [3]: a<8 and b<5
 Out[3]: True
 In [4]: hex(0o74)
 Out[4]: '0x3c'
 In [5]: oct(0x3c)
 Out[5]: '0o74'
In [10]: temp=a1
         a1=5
         b1=7
         print(a1)
         print(b1)
        NameError
                                                  Traceback (most recent call last)
        Cell In[10], line 1
        ----> 1 temp=a1
              2 a1=5
              3 b1=7
        NameError: name 'a1' is not defined
 In [ ]: x=6
         y=7
In [12]: x,y = y,x
        NameError
                                                  Traceback (most recent call last)
        Cell In[12], line 1
        ---> 1 x,y = y,x
        NameError: name 'y' is not defined
In [19]: a=4000
         a>>30
Out[19]: 0
In [20]: a=10
         a>>3
Out[20]: 0
 In [ ]: 0000 1010 0000
```

## **Arthimetic Operator**

In [1]: x,y=5,10 In [2]: **x+y** Out[2]: **15** In [3]: x-y Out[3]: -5 In [4]: x\*y Out[4]: **50** In [5]: x/y Out[5]: 0.5 In [6]: x//y Out[6]: 0 In [7]: **x%y** Out[7]: 5 In [8]: x\*\*y Out[8]: 9765625 In [ ]: ASSIGMENT OPERATOR In [16]: p=2 Out[16]: 2 In [20]: p=p+2 Out[20]: 6 In [21]: p+=3 In [22]: p Out[22]: 9 In [29]: p\*=2 Out[29]: **24** 

```
In [30]: p*-2
  Out[30]: -48
  In [31]: p
  Out[31]: 24
  In [32]: p-=2
  Out[32]: 22
  In [33]: p/2
  Out[33]: 11.0
  In [35]: p/=2
           р
  Out[35]: 5.5
  In [36]: p//2
  Out[36]: 2.0
  In [38]: k,v=7,9
           print(k)
           print(v)
          7
  In [39]: n=7
  Out[39]: 7
  In [41]: m=-(n)
  Out[41]: -7
  In [42]: n
  Out[42]: 7
  In [43]: -n
  Out[43]: -7
RELATIONAL OPERATOR
  In [44]: a=5
           b=7
           a<b
```

```
Out[44]: True
In [45]: a>b
Out[45]: False
In [46]: a==b
Out[46]: False
In [47]: a!=b
Out[47]: True
In [50]: b=5
In [51]: a==b
Out[51]: True
In [ ]: LOGICAL OPERATOR
In [52]: r=5
         k=7
        r<k and r>k
Out[52]: False
In [56]: x=False
Out[56]: False
In [57]: not x
Out[57]: True
In [59]: x=not x
Out[59]: False
In [60]: x
Out[60]: False
         NUMBER SYSTEM COVERSION
In [62]: 50
Out[62]: 50
In [63]: bin(50)
Out[63]: '0b110010'
```

```
In [64]: int(0b110010)
Out[64]: 50
In [65]: oct(49)
Out[65]:
         '0061'
In [66]: bin(0061)
Out[66]: '0b110001'
In [67]: int(0061)
Out[67]: 49
In [68]: oct(0b110001)
Out[68]: '0061'
In [69]: oct(25)
Out[69]: '0o31'
In [70]: oct(19)
Out[70]: '0o23'
In [71]: hex(16)
Out[71]: '0x10'
In [72]: hex(22)
Out[72]: '0x16'
         SWAPPING
In [73]:
         a=5
         b=7
In [74]:
         a=b
         b=a
In [75]: print(a)
         print(b)
        7
In [76]: a1=10
         b1=5
In [77]:
        temp=a1
         a1=b1
         b1=temp
```

```
print(a1)
           print(b1)
          10
In [104...
          a2=4
           b2=7
           a2 = a2 + b2
           b2 = a2 - b2
           a2 = a2 - b2
           print(a2)
           print(b2)
          7
          4
In [106... a,b = b,a
In [107... print(a,b)
         5 12
In [111...
          c=10
           d=15
           c = c \wedge d
           d = c \wedge d
           c = c \wedge d
           print(c)
           print(d)
          15
         10
In [112...
          c,d
Out[112... (15, 10)
In [ ]: BIWISE OPERATOR
In [113...
          ~10
Out[113...
           -11
In [114...
          ~13
Out[114... -14
In [115...
          12&13
Out[115... 12
In [116...
          15 | 14
Out[116... 15
```

In [117	35 <u>&amp;</u> 40
Out[117	32
In [118	35   40
Out[118	43
In [119	25^30
Out[119	7
In [120	16^4
Out[120	20
In [121	bin(16)
Out[121	'0b10000'
In [122	bin(4)
Out[122	'0b100'
In [123	10<<3
Out[123	80
In [125	10>>3
Out[125	1
In [ ]:	