Working with Python-Operator

Arithmetic-Operator

In [4]:
```
x=15
y=24
print(x+y)
```

```
39
```

In [5]:
```
x=30
y=47
print(x-y)
```

```
-17
```

In [6]:
```
x=20
y=10
print(x*y)
```

```
200
```

In [8]:
```
x=10
y=5
print(x/y)
```

```
2.0
```

In [9]:
```
x=10
y=5
print(x//y)
```

```
2
```

In [19]:
```
x=10
y=10
print(x**y)
```

```
10000000000
```

Assignment Opeartor

In [32]:
```
a=20
```

In [33]:
```
a +=30
```

In [34]:
```
print(a)
```

```
50
```

In [35]:
```
b=20
b+=10
```

```
print(b)
```

```
30
```

In [39]:
```
a=40
print(a)
```

```
40
```

In [41]:
```
a=40
a +=40
print(a)
```

```
80
```

In [42]:
```
b=30
print(b)
```

```
30
```

In [43]:
```
b-=10
```

In [44]:
```
b
```

Out[44]: 20

In [45]:
```
b=40
print(b)
```

```
40
```

In [46]:
```
b-=20
print(b)
```

```
20
```

In [47]:
```
b*=2
print(b)
```

```
40
```

In [48]:
```
print(b)
```

```
40
```

In [49]:
```
b*=6
print(b)
```

```
240
```

In [50]:
```
b*=10
print(b)
```

```
2400
```

In [51]:
```
b*=3
print(b)
```

```
7200
```

In [52]:
```
b/=20
print(b)
```

```
360.0
```

In [56]:
```
c=20
c/=3
print(c)
```

```
6.666666666666667
```

In [57]:
```
c
```

Out[57]: 6.666666666666667

In [58]:
```
c/=3
print(c)
```

```
2.2222222222222223
```

In [62]:
```
c=60
c//=15
print(c)
```

```
4
```

In [68]:
```
c//=2
print(c)
```

```
0
```

Unary Operator

In [69]:
```
n= 7 #negattion
n
```

Out[69]: 7

In [70]:
```
m= -n
print(m)
```

```
-7
```

In [71]:
```
a=-20
print(a)
```

```
-20
```

In [72]:
```
b= a
print(b)
```

```
-20
```

Relation operator (we are using for this for comparing)

In [73]:
```
x=39
y=49
print(x,y)
```

```
39 49
```

In [75]:
```
print(x>y)
print(y<x)
```

```
False
False
```

In [76]:
```
x>=y
```

Out[76]: False

In [77]:
```
y<=x
```

Out[77]: False

In [78]:
```
print(x==y)
print(x!=y)
```

```
False
True
```

In [79]:
```
x=20
y=40
print(x>=y)
```

```
False
```

In [80]:
```
print(x<=y)
print(x>=y)
print(x==y)
print(x!=y)
```

```
True
False
False
True
```

In [81]:
```
x=-39
y=20
print(x>=y)
```

```
False
```

In [82]:
```
print(x<=y)
print(x==y)
print(x!=y)
```

```
True
False
True
```

In [84]:
```
x=-20
y=-40
print(x>=y)
print(x<=y)
print(x==y)
print(x!=y)
print(x>y)
print(x<y)
```

```
True
False
False
True
True
False
```

Logical Opeartor

In [85]:
```
y=20
z=30
print(y>9 and z<20)
```

```
False
```

In [87]:
```
y>29 and z<30
```

Out[87]: False

In [88]:
```
z>20 and y<39
```

Out[88]: True

In [90]:
```
y>2 or z>49
```

Out[90]: True

In [91]:
```
a=10
b=20
a>2 or b>39
```

Out[91]: True

In [92]:
```
a<20 or b>=20
```

Out[92]: True

In [93]:
```
a>3 or b<39
```

Out[93]: True

In [95]:
```
a!=b
```

Out[95]: True

In [96]:
```
a==b
```

Out[96]: False

In [97]:
```
b!=a
```

Out[97]: True

In [99]:
```
x==y
```

Out[99]: False

In [100…
```
x!=y
```

Out[100… True

In [101…
```
y==x
```

Out[101… False

In [102…
```
x!=y
```

Out[102… True

Print()

In [105…
```
print(29)
print('sameer','ram')
print(1,3.4,'abhi',True,1+3J)
```

```
29
sameer ram
1 3.4 abhi True (1+3j)
```

In [107…
```
num1=20
num2=39
add=num1+num2
print(add)
```

```
59
```

In [1]:
```
a=20
b=20
sum=a+b
print(sum)
```

```
40
```

Print result with string Format

Use a print format method

In [15]:
```
value1=30
value2=30
add=value1+value2
print('The addition of {} and {} is equal to={}'.format(value1,value2,add))
```

```
The addition of 30 and 30 is equal to=60
```

In [18]:
```
value1=20
value2=30
value3=49
add=value1+value2+value3
print('The addition value of',value1,'and',value2,'or',value3,'total=',add)
```

```
The addition value of 20 and 30 or 49 total= 99
```

In [21]:
```
value1=20
value2=30
value3=49
add=value1*value2*value3
print('The Multiply value of{} and{}or{} is={}'.format(value1,value2,value3,add))
```

```
The Multiply value of20 and30or49 is=29400
```

In [25]:
```
value1=20
value2=30
value3=49
add=value1*value2*value3
print(f'The Multiply value of{value1}and{value2}or{value3}  is={add}')
```

```
The Multiply value of20and30or49  is=29400
```

In [35]:
```
pen=20
pencil=10
Eraser=5
Shapner=5
NooteBook=100
shoes=200
sum=pen+pencil+Eraser+Shapner+NooteBook+shoes
print('The  Student Instruments budgets are:  penprice$=',pen,'pencilprice$=',penci
```

```
The  Student Instruments budgets are:  penprice$= 20 pencilprice$= 10 Eraserprice$=
5 Shapnerprice$= 5 Nootebookprice$= 100 shoesprice$= 200 total budjet of= 340
```

In [41]:
```
pen=20
pencil=10
Eraser=5
Shapner=5
NooteBook=100
shoes=200
sum=pen+pencil+Eraser+Shapner+NooteBook+shoes
print('The student Instrument budjets are:penprice${} pnecilprice${} Eraserprice${}
```

```
The student Instrument budjets are:penprice$20 pnecilprice$10 Eraserprice$5 ShapnerP
rice$5 NooteBookprice$100 shoesprice$200 total budjet of=340
```

In [43]:
```
pen=20
pencil=10
Eraser=5
Shapner=5
NooteBook=100
shoes=200
add=pen+pencil+Eraser+Shapner+NooteBook+shoes
print(f'School instrument budjet are all students:pen${pen},pencil${pencil},Eraser$
```

```
School instrument budjet are all students:pen$20,pencil$10,Eraser$5,Shapner$5,NooteB
ook$100,Shoes$200 total budjet are=340
```

In [9]:
```
apple=200
orange=250
greps=400
add=apple+orange+greps
print('A apple orange greps fruits budjets are:',apple,'and',orange,'or',greps,'of
```

```
A apple orange greps fruits budjets are: 200 and 250 or 400 of total Price of Fruit
s: 850
```

In [13]:
```
apple=200
orange=250
greps=400
add=apple+orange+greps
print('A apple orange greps fruits budjets are:{}and{}or{} of total Price of Fruits
```

```
A apple orange greps fruits budjets are:200and250or400 of total Price of Fruits850:
```

In [16]:
```
apple=200
orange=250
greps=400
add=apple+orange+greps
print(f'A apple orange greps fruits budjets are:{apple}and{orange}or{greps}of total
```

```
A apple orange greps fruits budjets are:200and250or400of total Price of Fruits:850
```

In [5]:
```
name='Abhishek sahoo'
age=20
location='Hydrabad'
Biodata=name,age,location
print(Biodata)
```

```
('Abhishek sahoo', 20, 'Hydrabad')
```

In [9]:
```
print('My self {} and i am{}years old  from {}'.format(name,age,location,Biodata))
```

```
My self Abhishek sahoo and i am20years old  from Hydrabad
```

In [14]:
```
print(f'Hello i am {name} and i am {age} years old from {location}')
```

```
Hello i am Abhishek sahoo and i am 20 years old fromHydrabad
```

In [16]:
```
math=70
mil=90
eng=89
sce=90
average=math+mil+eng+sce/4
print('the average of all  subject math-',math,'mil-',mil,'eng-',eng,'sce-',sce,'is
print('The average of all subject math{} mil{} eng{} sce{} is avg{}'.format(math,mi
print(f'the average of  subject are math{math},mil{mil},eng{eng},sce{sce} is averag
```

```
the average of all  subject math- 70 mil- 90 eng- 89 sce- 90 is avg= 271.5
The average of all subject math70 mil90 eng89 sce90 is avg271.5
the average of  subject are math70,mil90,eng89,sce90 is average -271.5
```

end statement

print('hello everyone')#first statement print('my self Abhishek')# second statement

In [18]:
```
print('hello everyone', end='') #Here we will use end statement that joint line fro
print('my self Abhishek')
```

```
hello everyonemy self Abhishek
```

In [22]:
```
print('today is sunday',end='')# first statement
print('so today iam vey  excited',end='')# second statement
print('because today  is Holiday',end='')# third statement
```

```
today is sundayso today iam vey  excitedbecause today  is Holiday
```

seprator

here we are use only print statement

we have use multiple value inside ine print statement

we want to seperate these multipal values with anything

In [26]:
```
print('hello','goodmorning','how are you', sep=',')
```

```
hello,goodmorning,how are you
```

In [27]:
```
print('hey','hii','have a nice day',sep='---')
```

```
hey---hii---have a nice day
```

In [29]:
```
print('price of fruits apple','orange','banana','greps','pineapple',sep=',')
```

```
price of fruits apple,orange,banana,greps,pineapple
```

In [31]:
```
print(2026, 10, 1, sep="-")
```

```
2026-10-1
```

In [32]:
```
print("A", "B", "C", sep=" | ")
```

```
A | B | C
```

In [33]:
```
print('20','30','40','50',sep='+')
```

```
20+30+40+50
```

In [35]:
```
a=30
b=49
c=49
print(a,b,c,sep='+')
```

```
30+49+49
```

In [36]:
```
print('python','is','fun',sep='*')
```

```
python*is*fun
```

In [38]:
```
print(' red','green','blue',sep='\n')
```

```
 red
green
blue
```

In [42]:
```
print('red','green','blue',sep='\t')
```

```
red	green	blue
```

In [43]:
```
print('p','y','t','h','o','n',sep='')
```

```
python
```

In [45]:
```
print('*','*','*','*','*','*','*',sep='\n')
```

```
*
*
*
*
*
*
*
```

In [51]:
```
print(1,2,3,end='')# end statement
print(4,sep=',')# sep statement
```

```
1 2 34
```

In [55]:
```
print(2,end='')
print(3,'.',end='')
print(4,'.') ## . is far from 4 so here we will use sep method
```

```
23 .4 .
```

In [56]:
```
a = 5
b = 3
print(a, "+", b, "=", a + b, sep=" ")
```

```
5 + 3 = 8
```

In [58]:
```
x=20
y=30
print(x, '-',y,'=',x-y,sep='')
```

```
20-30=-10
```

In [59]:
```
x=20
y=7
print(x,'*',y,'=',x*y,sep='')
```

```
20*7=140
```

In [60]:
```
print(x,'/',y,'=',x/y,sep='')
```

```
20/7=2.857142857142857
```

In [ ]:
```

```