

2. Operators

operators are the special symbol or keyword which is used to perform operation on variable.

2.1 Arithmetical Operators

In [1]:

1.Addition Operator
a=10
b=20
a+b

Out[1]:

30

In [2]:

#2. subtraction operator
a-b

Out[2]:

-10

In [3]:

3.Multiplication Operator
a*b

Out[3]:

200

In [4]:

4.Division operator(float value)
a=5
b=2
a/b #ans will be 2.5

Out[4]:

2

In [5]:

5.Floor division operator (whole number)
a=5
b=2
a//b

Out[5]:

2

In [6]:

#6.modulous operator (remainder)
a=5
b=2
a%**b**

Out[6]:

1

In [7]:

#7.Exponent operator
a**b

Out[7]:

25

2.2 Assignment Operators

In [8]:

a=6 #single assignment
a,b=3,4 # multi assignment
a=b=c=6
print(a,b,c)

(6, 6, 6)

2.3 Short Hand Assignment Operators

In [9]:

a=0
a+=3
a

Out[9]:

3

In [10]:

a-=3
a

Out[10]:

0

In [11]:

a*=4
a

Out[11]:

0

In [12]:

a+=4
a/=4
a

Out[12]:

1

In [13]:

a+=7
a%=4
a

Out[13]:

0

In [14]:

b=4
b+=2
b//=2
b

Out[14]:

3

In [15]:

b**=3
b

Out[15]:

27

2.4 Relational Operators

In [16]:

less than
var1=4
var1<2

Out[16]:

False

In [17]:

greater than
var1>2

Out[17]:

True

In [18]:

less than equals to
var1<=3

Out[18]:

False

In [19]:

greater than equals to
var1>=4

Out[19]:

True

In [20]:

equals to
var2=5
var1==var2

Out[20]:

False

In [21]:

not equals to
var1!=var2

Out[21]:

True

2.5 Logical Operators

In [22]:

2>3 **and** 3<4 # In AND operator both condition should be true, then only the result will be true.

Out[22]:

False

In [23]:

2>3 **or** 3<4 # In OR operator, even if one condition is true then the output will be true.

Out[23]:

True

In [24]:

a=3
b=4
a=**not** b
a

Out[24]:

False