In [1]:

```python
# Arithmetic Operators


a=10
b=2
print('a+b=',a+b)
print('a-b=',a-b)
print('a*b=',a*b)
print('a/b=',a/b)
print('a//b=',a//b)
print('a%b=',a%b)
print('a**b=',a**b)
```

```
a+b= 12
a-b= 8
a*b= 20
a/b= 5.0
a//b= 5
a%b= 0
a**b= 100
```

In [9]:

```python
print(10/2)
print(10//2)
print(10.0/2)
print(10.0//2)
print(4.5//2)
```

```
5.0
5
5.0
5.0
2.0
```

In [14]:

```python
# Relational Operators: >, >=, <, <=

a=10
b=20
print("a > b is ",a>b)

print("a >= b is ",a>=b)
print("a < b is ",a<b)
print("a <= b is ",a<=b)
```

```
a > b is  False
a >= b is  False
a < b is  True
a <= b is  True
```

In [13]:

```python
a="durga"

b="durga"
print("a > b is ",a>b)
print("a >= b is ",a>=b)
print("a < b is ",a<b)
print("a <= b is ",a<=b)
```

```
a > b is  False
a >= b is  True
a < b is  False
a <= b is  True
```

In [20]:

```python
# Equality Operators: ==, !=

print( 10 == 20)

print(10!= 20)

print(10==True)

print(False==False)

print("durga"=="durga")
print(10=="durga")
```

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

In [23]:

```python
print(10==20==30==40)
print(10==10==10==10)
```

```
False
True
```

In [ ]:

```python
# Logical Operators: and, or, not
```

In [25]:

```python
print(10 and 20)
print(0 and 20)
```

```
20
0
```

In [26]:

```python
print(10 or 20)
print(0 or 20)
```

```
10
20
```

In [27]:

```python
print(not 10)
print(not 0 )
```

```
False
True
```

In [30]:

```python
# Assignment Operators:

x=10

x+=20 # x= x+20
print(x)
```

```
30
```

In [31]:

```python
x=10
x&=5
print(x)
```

```
0
```

In [32]:

```python
# Ternary Operator OR Conditional Operator

'''Syntax: x = firstValue if condition else secondValue

If condition is True then firstValue will be considered else secondValue will be considered'''



a,b=10,20

x=30 if a<b else 40
print(x)
```

```
30
```

In [35]:

```python
# Read two numbers from the keyboard and print minimum value


a=int(input("Enter First Number:"))

b=int(input("Enter Second Number:"))
min=a if a<b else b
print("Minimum Value:",min)
```

```
Enter First Number:30
Enter Second Number:20
Minimum Value: 20
```

In [36]:

```python
a=int(input("Enter First Number:"))

b=int(input("Enter Second Number:"))
min=a if a<b else b
print("Minimum Value:",min)
```

```
Enter First Number:50
Enter Second Number:10
Minimum Value: 10
```

In [ ]:

```python
# Membership Operators:
```

In [37]:

```python
x="hello learning Python is very easy!!!"
print('h' in x)
print('d' in x)
print('d' not in x)
print('Python' in x)
```

```
True
False
True
True
```

In [ ]: