

```
a = 5
b = 9
#Arithmetic operators
add = a + b
sub = a - b
mul = a * b
div = b / a
mod = b % a
p = a ** b
print(add)
print(sub)
print(mul)
print(div)
print(mod)
print(p)
```

```
14
-4
45
1.8
4
1953125
```

```
#Comparison operators
print(a<b)
print(a<=b)
print(a>b)
print(a>=b)
print(a!=b)
print(a==b)
```

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

```
#Logical operators  
print(a and b)  
print(a or b)  
print(not a)
```

```
9  
5  
False
```

```
#bitwise operators  
a = 10  
b = 4  
print(a & b)  
print(a | b)  
print(~a)  
print(a ^ b)  
print(a >> 1)  
print(a << 4)
```

```
0  
14  
-11  
14  
5  
160
```

```
a = 10  
b = a  
a+=a  
print(a)# a = a+a  
b-=a  
print(b)#b = b -a  
b*=a  
print(b)  
b<=<=a  
print(b)
```

```
20  
-10  
-200
```

-209715200

```
#identity operators  
a = 5  
b = 2  
c = a  
print(a is not b)  
print(a is c)
```

True

True

```
#Membership operators  
x = 3  
y = 5  
li = [1,3,6,8,2]  
if(x in li):  
    print(x)  
if(y in li):  
    print("y is not present")
```

3

```
#operator precedence  
a = 10 + 20 * 30  
print(a)  
  
name = "Dinesh"  
age = 29  
  
if name == "Dinesh" or name == "Kumar" and age >= 20:  
    print("Hello Dinesh")  
else:  
    print("Bye")
```

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Hello Dinesh

```
#operator overloading  
print(1+2)  
print("Dinesh"+"Kumar")  
print("python"*3)
```

```
3  
DineshKumar  
pythonpythonpython
```

DATA TYPES

```
#Strings  
  
x = "My class is Python"  
y = 'Python Class'  
z = '''My class in weekend'''  
print(x, y,)
```

```
My class is Python Python Class
```

```
#access the string  
print(x[5])  
print(y[0])  
print(z[-3])
```

```
a  
P  
e
```

```
#reversing the string
print(x[::-1])
q = "".join(reversed(x))
print(q)
```

```
nohtyP si ssalc yM
nohtyP si ssalc yM
```

```
#Slicing
print(x[0:8])
print(y[3:-2])
```

```
My class
hon Cla
```

```
x = "Dinesh is Python lead"
print(x)

li1 = list(x)
li1[6:10] = "Kumar"
a = ''.join(li1)
print(a)
```

```
Dinesh is Python lead
DineshKumarPython lead
```

```
x = a[0:4]+a[8:]
print(x)
del x
print(x)
```

```
DinemarPython lead
```

```
NameError: name 'x' is not defined
```