

## Assignment Operator

Operator	Example	Equivalent Expression (m=15)	Result
=	y = a+b	y = 10 + 20	30
+=	m +=10	m = m+10	25
-=	m -=10	m = m-10	5
*=	m *=10	m = m*10	150
/=	m /=10	m = m/10	1.5
%=	m %=10	m = m%10	5
**=	m **=2	m = m**2 or $m = m^2$	225
//=	m //=10	m = m//10	1

```
In [1]: a=2
        b=6
        c=3
        d=9
```

```
In [2]: print(a+b)
8
```

```
In [3]: a+=2  #will it increase value of a by 2?
        print(a)
4
```

```
In [4]: #similarly for subtraction
        a-=2
        print(a)
2
```

```
In [5]: print(b/a)
3.0
```

```
In [6]: print(b//a)
3
```

// known as floor division, it will only give integer and remove decimal. / is traditional division which will show division values

```
In [7]: # % gives reminder
        print(d%c)
0
```

```
In [8]: # ** is power and * is multiplication
        print(2**2)
4
```

```
In [9]: print(2*3)
6
```

## Comparison Operator

Operators	Meaning	Example	Result
<	Less than	5<2	False
>	Greater than	5>2	True
<=	Less than or equal to	5<=2	False
>=	Greater than or equal to	5>=2	True
==	Equal to	5==2	False
!=	Not equal to	5!=2	True

```
In [1]: num1=int(input("Enter first number \n"))
        num2=int(input("Enter second number \n"))
```

```
Enter first number
4
Enter second number
6
```

```
In [2]: num1<num2
```

```
Out[2]: True
```

```
In [3]: num2<=num1
```

```
Out[3]: False
```

```
In [4]: num1==num2
```

```
Out[4]: False
```

```
In [5]: num1!=num2
```

```
Out[5]: True
```

```
In [6]: a=10
        b=10
```

```
In [7]: a==b
```

```
Out[7]: True
```

```
In [8]: a<b
```

```
Out[8]: False
```

```
In [9]: a<=b
```

```
Out[9]: True
```

```
In [ ]:
```

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