

# ARITHMETIC OPERATORS

```
In [1]: a=10  
      b=5  
      a
```

```
Out[1]: 10
```

```
In [2]: b
```

```
Out[2]: 5
```

```
In [3]: a,b=5,10
```

```
In [4]: a,b
```

```
Out[4]: (5, 10)
```

```
In [5]: print(a,b)
```

```
5 10
```

```
In [6]: print((a,b))
```

```
(5, 10)
```

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

```
Out[7]: 15
```

```
In [8]: a_b
```

```
NameError  
Cell In[8], line 1  
----> 1 a_b
```

```
Traceback (most recent call last)
```

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

```
In [9]: a-b
```

```
Out[9]: -5
```

```
In [10]: a*b
```

```
Out[10]: 50
```

```
In [11]: b/a
```

```
Out[11]: 2.0
```

```
In [12]: b//a
```

```
Out[12]: 2
```

```
In [13]: b%a
```

```
Out[13]: 0
```

```
In [14]: a%b
```

```
Out[14]: 5
```

```
In [15]: a' 'b
```

```
Cell In[15], line 1
```

```
a' 'b
```

```
^
```

```
SyntaxError: invalid syntax
```

```
In [16]: a"b
```

```
Cell In[16], line 1
```

```
a"b
```

```
^
```

```
SyntaxError: unterminated string literal (detected at line 1)
```

```
In [17]: a'b
```

```
Cell In[17], line 1
```

```
a'b
```

```
^
```

```
SyntaxError: unterminated string literal (detected at line 1)
```

```
In [18]: a=10
```

```
b=5
```

```
In [19]: a**b
```

```
Out[19]: 100000
```

```
In [20]: b**a
```

```
Out[20]: 9765625
```

```
In [21]: a***b
```

```
Cell In[21], line 1
```

```
a***b
```

```
^
```

```
SyntaxError: invalid syntax
```

## ASSIGNMENT OPERATORS

```
In [22]: a=10  
a=a+10
```

```
In [23]: a
```

```
Out[23]: 20
```

```
In [24]: a+=2
```

```
In [25]: a
```

```
Out[25]: 22
```

```
In [26]: a+=4  
a
```

```
Out[26]: 26
```

```
In [27]: a+=4  
a
```

```
Out[27]: 30
```

```
In [28]: a-=4  
a
```

```
Out[28]: 26
```

```
In [29]: a-=4  
a
```

```
Out[29]: 26
```

```
In [30]: a*=2  
a
```

```
Out[30]: 52
```

```
In [31]: a/=2  
a
```

```
Out[31]: 26.0
```

```
In [32]: a/=2  
a
```

```
Out[32]: 13.0
```

```
In [33]: a=64.0  
b=2  
a//b
```

```
Out[33]: 32.0
```

```
In [34]: a=64  
b=2  
a//b
```

```
Out[34]: 32
```

```
In [35]: a=64  
b=2.0  
a//b
```

```
Out[35]: 32.0
```

## RELATIONAL OPERATORS

```
In [ ]: a=
```