

```
a = 10
b = 20
c = a * b
print(c, type(c))
```

```
200 <class 'int'>
```

```
a = 10.0
b = 20
c = a * b
print(c, type(c))
```

```
200.0 <class 'float'>
```

```
a = 10.0
b = 20.0
c = a * b
print(c, type(c))
```

```
200.0 <class 'float'>
```

```
a = 10.0
b = True
c = a * b
print(c, type(c))
```

```
10.0 <class 'float'>
```

```
a = 10.0
b = False
c = a * b
print(c, type(c))
```

```
0.0 <class 'float'>
```

```
a = 10
b = False
c = a * b
print(c, type(c))
```

```
0 <class 'int'>
```

```
a = True
b = False
c = a * b
print(c, type(c))
```

```
0 <class 'int'>
```

```
a = 'python'
b = 'python'
c = a * b
print(c, type(c))
```

```
-----  
TypeError                                Traceback (most recent call last)  
<ipython-input-8-489626b31334> in <module>  
    1 a = 'python'  
    2 b = 'python'  
----> 3 c = a * b  
    4 print(c, type(c))  
  
TypeError: can't multiply sequence by non-int of type 'str'
```

SEARCH STACK OVERFLOW

```
a = 'python'  
b = 2  
c = a * b  
print(c, type(c))
```

pythonpython <class 'str'>

```
a = 1  
b = 'python'  
c = a * b  
print(c, type(c))
```

python <class 'str'>

```
a = 0  
b = 'python'  
c = a * b  
print(c, type(c))
```

<class 'str'>

```
a = True  
b = 'python'  
c = a * b  
print(c, type(c))
```

python <class 'str'>

```
a = False  
b = 'python'  
c = a * b  
print(c, type(c))
```

<class 'str'>

```
a = 1.0  
b = 'python'  
c = a * b  
print(c, type(c))
```

TypeError

Traceback (most recent call last)

```

a = 1
b = 'python'
c = a * b
print(c, type(c))

```

python <class 'str'>

```

a = 5
b = 2
c = a ** b
print(c, type(c))

```

25 <class 'int'>

```

a = 5.0
b = 2
c = a ** b
print(c, type(c))

```

25.0 <class 'float'>

```

a = 'python'
b = 2
c = a ** b
print(c, type(c))

```

TypeError

Traceback (most recent call last)

<ipython-input-18-944589131941> in <module>

```

1 a = 'python'
2 b = 2
----> 3 c = a ** b
4 print(c, type(c))

```

TypeError: unsupported operand type(s) for ** or pow(): 'str' and 'int'

SEARCH STACK OVERFLOW

```

amount = 100000
print('2000 notes :', amount//2000)
amount = amount % 2000
print('500 notes :', amount//500)
amount = amount % 500
print('200 notes :', amount//200)
amount = amount % 200
print('100 notes :', amount//100)
amount = amount % 100

```

```

2000 notes : 50
500 notes : 0
200 notes : 0
100 notes : 0

```

▼ Relational Operators

==

!=

<

>

<=

>=

```
a = 100
b = 200
c = a == b
print(c, type(c))
```

False <class 'bool'>

```
a = 100
b = 100
c = a == b
print(c, type(c))
```

True <class 'bool'>

```
a = 100
b = 100.0
c = a == b
print(c, type(c))
```

True <class 'bool'>

```
a = 1
b = True
c = a == b
print(c, type(c))
```

True <class 'bool'>

```
a = 0.0
b = False
c = a == b
print(c, type(c))
```

True <class 'bool'>

```
a = 'python'
b = 'python'
c = a == b
print(c, type(c))
```

True <class 'bool'>

```
a = 'Python'
b = 'python'
```

```
c = a == b
print(c, type(c))
False <class 'bool'>
```

```
a = 'Python'
b = 'python'
c = a < b
print(c, type(c))
True <class 'bool'>
```

```
print('$')
print(ord('$'))
$
36
```

```
a = 'Python'
b = 'p'
c = a < b
print(c, type(c))
True <class 'bool'>
```

```
a = 'python'
b = 'P'
c = a < b
print(c, type(c))
False <class 'bool'>
```

```
a = 'python'
b = 'pythoN'
c = a < b
print(c, type(c))
False <class 'bool'>
```

```
a = 'pythoN'
b = 'python'
c = a < b
print(c, type(c))
True <class 'bool'>
```

```
a = 'python'
b = 'python'
c = a > b
print(c, type(c))
False <class 'bool'>
```

```
a = 'python'
b = 'pythoN'
```

```
c = a > b
print(c, type(c))
```

True <class 'bool'>

```
a = 'python'
b = 'python'
c = a <= b
print(c, type(c))
```

True <class 'bool'>

```
a = 'python'
b = 'p'
c = a <= b
print(c, type(c))
```

False <class 'bool'>

```
a = 'python'
b = 'python'
c = a >= b
print(c, type(c))
```

True <class 'bool'>

```
a = 100
b = 200
c = a != b
print(c, type(c))
```

True <class 'bool'>

```
a = 100
b = 100.0
c = a != b
print(c, type(c))
```

False <class 'bool'>

▼ Assignment Operators

+=

-=

/=

%=

//=

***=**

****=**

```
a = 10
a = a + 1
print(a)
```

11

```
a = 10
a+=1
print(a)
```

11

```
a = 10
a = + 1
print(a)
```

1

```
a = 10
a = - 1
print(a)
```

-1

```
a = 100
a+=a
print(a)
```

200

```
a = 20
a+=10
print(a)
```

30

```
a = 20
a+=0
print(a)
```

20

```
a = 100
a-=a
print(a)
```

0

```
a = 50
a/=1
print(a)
```

50.0

```
a = 20
a/=a
```

```
print(a)
```

```
1.0
```

```
a = 20
```

```
a/=0
```

```
print(a)
```

```
-----
ZeroDivisionError                                Traceback (most recent call last)
<ipython-input-63-763259d6df42> in <module>
      1 a = 20
----> 2 a/=0
      3 print(a)
```

```
ZeroDivisionError: division by zero
```

SEARCH STACK OVERFLOW

```
a=25
```

```
a%=6
```

```
print(a)
```

```
1
```

```
a = 25
```

```
a%=a
```

```
print(a)
```

```
0
```

```
a = 45
```

```
a//=5
```

```
print(a)
```

```
9
```

```
a = 45
```

```
a//=a
```

```
print(a)
```

```
1
```

```
a = 4
```

```
a*=2
```

```
print(a)
```

```
8
```

```
a = 4
```

```
a*=a
```

```
print(a)
```

```
16
```

```
a = 4
```

```
a*='python'
```

```
print(a)
```

```
pythonpythonpythonpython
```



```
a = 5  
a**=a  
print(a)
```

3125

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✓ 0s completed at 1:20 PM

