

```
[1]: print(98)
```

```
98
```

```
[3]: print('hello world')
```

```
hello world
```

```
[5]: print(98.3)
```

```
98.3
```

```
[7]: a=35.0
```

```
b=12.50
```

```
c=a*b
```

```
print(c)
```

```
437.5
```

```
[9]: xx=2
```

```
xx=xx+2
```

```
print(xx)
```

```
4
```

```
[ ]:
```

```
[35]: temp= 98.6  
      type(temp)
```

```
[35]: float
```

```
[39]: print(float(99) + 10)  
      i = 42  
      type(i)  
      f = float(i)  
      print(f)  
      type(f)
```

```
109.0
```

```
42.0
```

```
[39]: float
```

```
[41]: print(10 / 2)  
      print(9 / 2)  
      print(99 / 100)  
      print(10.0 / 2.0)  
      print(99.0 / 100.0)
```

```
5.0
```

```
4.5
```

```
0.99
```

```
5.0
```

```
0.99
```

```
[9]: xx=2  
xx=xx+2  
print(xx)
```

4

```
[11]: yy=440*12  
print(yy)
```

5280

```
[13]: zz=yy/1000  
print(zz)
```

5.28

```
[15]: jj= 23  
kk= jj% 5  
print(kk)
```

3

```
[17]: print(4 **3)
```

64

: float

```
print(float(99) + 10)
i = 42
type(i)
f = float(i)
print(f)
type(f)
```

109.0

42.0

: float

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print(99 / 100)
print(10.0 / 2.0)
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```

```
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print(99 / 100)
print(10.0 / 2.0)
print(99.0 / 100.0)
```

```
5.0
4.5
0.99
5.0
0.99
```

```
inp= input('Europe floor?')
usf= int(inp)+1
print('US floor', usf)
```

```
Europe floor? 0
US floor 1
```

```
nam= input('Who are you? ')
print('Welcome', nam)
```

```
Who are you? herry
Welcome herry
```

✓ - E

```
: print(10 / 2)
print(9 / 2)
print(99 / 100)
print(10.0 / 2.0)
print(99.0 / 100.0)
```

```
5.0
4.5
0.99
5.0
0.99
```

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```
Who are you? herry
Welcome herry
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type(temp)
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float

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print(float(99) + 10)  
i = 42  
type(i)  
f = float(i)  
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109.0

42.0

float

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print(10 / 2)  
print(9 / 2)  
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5.0

4.5

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0.99

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xx=xx+2  
print(xx)
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4

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[11]: yy=440*12  
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5.28

```
[15]: jj= 23  
kk= jj% 5  
print(kk)
```

3

```
[17]: print(4 **3)
```

64



```
[ ]: x = 1 + 2 ** 3 / 4 * 5  
print(x)
```

11.0

```
[ ]: ddd= 1 + 4  
print(ddd)
```

5

```
[ ]: eee= 'hello ' + 'there'  
print(eee)
```

hello there

```
[ ]: type(eee)
```

```
[ ]: str
```

```
[ ]: type('hello')
```

```
[ ]: str
```

```
[ ]: type(1)
```

```
[ ]: int
```

```
a = 35.0  
b = 12.50  
c = a * b  
print(c)
```

---

437.5

---

```
xx= 2  
xx= xx+2  
print(xx)  
yy= 440 *12  
print(yy)  
zz= yy/1000  
print(zz)  
jj= 23  
kk= jj% 5  
print(kk)  
print(4 **3)
```

```
a = 35.0  
b = 12.50  
c = a * b  
print(c)
```

---

437.5

---

```
xx= 2  
xx= xx+2  
print(xx)  
yy= 440 *12  
print(yy)  
zz= yy/1000  
print(zz)  
jj= 23  
kk= jj% 5  
print(kk)  
print(4 **3)
```

```
found = False
print('Before', found)
for value in [9, 41, 12, 3, 74, 15] :
    if value == 3 :
        found = True
print(found, value)
print('After', found)
```

Before False

True 15

After True

```
largest_so_far = -1
print('Before', largest_so_far)
for the_num in [9, 41, 12, 3, 74, 15] :
    if the_num > largest_so_far :
        largest_so_far = the_num
print(largest_so_far, the_num)
print('After', largest_so_far)
```

Before -1

74 15

After 74

```
[1]: rawstr = input('Enter a number:')  
try:  
    ival= int(rawstr)  
except:  
    ival= -1  
if ival> 0 :  
    print('Nice work')  
else:  
    print('Not a number')
```

```
Enter a number: 2  
Nice work
```

```
[10]: big= max('Hello world')  
print(big)  
  
tiny= min('Hello world')  
print(tiny)  
  
w
```

```
[23]: print(float(99) /100)
      i= 42
      type(i)
      f = float(i)
      print(f)
      type(f)
      print(1 +2 *float(3) /4-5)
```

0.99

42.0

-2.5

```
[27]: x= 5
      print('Hello')
      def print_lyrics():
          print("I'm a lumberjack, and I'm okay.")
          print('I sleep all night and I work all day.')
      print('Yo')
      x= x+2
      print(x)
```

Hello

Yo

7

```
def greet(lang):  
    if lang == 'es':  
        print('Hola')  
    elif lang == 'fr':  
        print('Bonjour')  
    else:  
        print('Hello')
```

```
def greet():  
    return "Hello"  
print(greet(), "Glenn")  
print(greet(), "Sally")
```

Hello Glenn  
Hello Sally

```
def greet(lang):  
    if lang == 'es':  
        return 'Hola'  
    elif lang == 'fr':  
        return 'Bonjour'  
    else:  
        return 'Hello'
```

```
[19]: print('Before')
      for thing in [9, 41, 12, 3, 74, 15] :
          print(thing)
      print('After')
```

Before

9

41

12

3

74

15

After

```
[25]: zork = 0
      print('Before', zork)
      for thing in [9, 41, 12, 3, 74, 15] :
          zork = zork + 1
          print(zork, thing)
      print('After', zork)
```

Before 0

1 9

2 41

3 12

4 3

5 74

6 15

After 6



```
[7]: while True:  
    line=input('> ')  
    if line=='done':  
        break  
    print(line)  
    print('Done!')
```

```
> 2  
2  
Done!  
> 3  
3  
Done!  
> done
```

```
[9]: n=0  
while n>0:  
    print('Lather')  
    print('Rinse')  
    print('Dry off!')
```

```
Rinse  
Dry off!
```

```
[41]: smallest_so_far = -1
print('Before', smallest_so_far)
for the_num in [9, 41, 12, 3, 74, 15] :
    if the_num < smallest_so_far :
        smallest_so_far = the_num
print(smallest_so_far, the_num)
print('After', smallest_so_far)
```

```
Before -1
-1 15
After -1
```

```
[47]: smallest = None
print('Before')
for value in [9, 41, 12, 3, 74, 15] :
    if smallest is None :
        smallest = value
    elif value < smallest :
        smallest = value
print(smallest, value)
print('After', smallest)
```

```
Before
3 15
After 3
```

```
count = 0
sum = 0
print('Before', count, sum)
for value in [9, 41, 12, 3, 74, 15] :
    count = count + 1
    sum = sum + value
    print(count, sum, value)
print('After', count, sum, sum / count)
```

Before 0 0

1 9 9

2 50 41

3 62 12

4 65 3

5 139 74

6 154 15

After 6 154 25.666666666666668