

```
In [1]: age=25  
      print(age)
```

25

```
In [4]: name='alice'  
      print(name)
```

alice

```
In [5]: price=20.50  
      print(price)
```

20.5

```
In [7]: is_active=True  
      print(is_active)
```

True

```
In [9]: x = 10  
      print (x)
```

10

```
In [10]: a = 5  
        b = 3  
        result = a + b  
        print (result)
```

8

```
In [11]: score = 50  
      print (score)
```

50

```
In [12]: score = 200  
      print (score)
```

200

```
In [19]: first_name = 'munna'  
        last_name = 'kona'  
        full_name = first_name+" "+last_name  
        print (full_name)
```

munna kona

```
In [20]: length = 20  
        width = 10  
        area = length * width  
  
        print (area)
```

200

```
In [22]: x = 10  
      print (x)
```

10

```
In [24]: x = 20  
        print (x)
```

20

Python Assignment

```
In [25]: # This is the comment  
        spam = 1 # this is the second comment  
        print (spam)
```

1

```
In [26]: print ('# This hash is not comment because its inside quote')
```

This hash is not comment because its inside quote

Using Python as Calculator

1) Numbers

```
In [27]: 2 + 2
```

Out[27]: 4

```
In [28]: 50 - 5*6
```

Out[28]: 20

```
In [29]: (50-5*6) / 4
```

Out[29]: 5.0

```
In [30]: 8 / 5
```

Out[30]: 1.6

```
In [31]: 8 // 5
```

Out[31]: 1

```
In [32]: 17 / 3
```

Out[32]: 5.666666666666667

```
In [33]: 17 // 3
```

Out[33]: 5

```
In [34]: 17 % 3
```

Out[34]: 2

```
In [35]: 5 * 3 + 2
```

```
Out[35]: 17
```

```
In [36]: 5 ** 2
```

```
Out[36]: 25
```

```
In [37]: 2 ** 7
```

```
Out[37]: 128
```

```
In [38]: width = 20  
height = 5 * 3  
width * height
```

```
Out[38]: 300
```

```
In [39]: n
```

```
-----  
-  
NameError  
t)  
Cell In[39], line 1  
----> 1 n
```

Traceback (most recent call last)

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

```
In [40]: 4 * 3.75 -1
```

```
Out[40]: 14.0
```

```
In [41]: tax = 12.5 / 100  
price = 100.50  
price*tax
```

```
Out[41]: 12.5625
```

```
In [42]: price + _
```

```
Out[42]: 113.0625
```

```
In [43]: round (_ ,2)
```

```
Out[43]: 113.06
```

2)Text

```
In [44]: 'Spam Eggs '
```

```
Out[44]: 'Spam Eggs '
```

```
In [45]: '1975'
```

```
Out[45]: '1975'
```

```
In [49]: "this is your's"
```

```
Out[49]: "this is your's"
```

```
In [51]: s = ' First line.\nSecond line.'
```

```
s
```

```
Out[51]: ' First line.\nSecond line.'
```

```
In [52]: print (s)
```

```
First line.  
Second line.
```

```
In [54]: print (r'C:\user\dev')
```

```
C:\user\dev
```

```
In [57]: word = 'python'  
word[5]
```

```
Out[57]: 'n'
```

```
In [61]: word[8]
```

```
-----  
-  
IndexError  
t)  
Cell In[61], line 1  
----> 1 word[8]
```

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

```
IndexError: string index out of range
```

```
In [62]: word[0:2]
```

```
Out[62]: 'py'
```

```
In [64]: word[-1:]
```

```
Out[64]: 'n'
```

```
In [65]: word[:2]
```

```
Out[65]: 'py'
```

```
In [66]: word[1]='j'
```

```
-----  
-  
TypeError  
t)  
Cell In[66], line 1  
----> 1 word[1]='j'
```

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

```
TypeError: 'str' object does not support item assignment
```

```
In [67]: 'J' + word[1:]
```

```
Out[67]: 'Jython'
```

```
In [68]: s = 'vsdbhsgjdkdgcysanabka'
len(s)
```

```
Out[68]: 21
```

```
In [69]: squares = [1,4,6,8,10]
squares
```

```
Out[69]: [1, 4, 6, 8, 10]
```

```
In [71]: squares[-1]
```

```
Out[71]: 10
```

```
In [72]: squares + [20,30,40]
```

```
Out[72]: [1, 4, 6, 8, 10, 20, 30, 40]
```

```
In [73]: cubes = [1,8,27,65,125]
```

```
In [74]: cubes[3]
```

```
Out[74]: 65
```

```
In [75]: 4 ** 3
```

```
Out[75]: 64
```

```
In [76]: cubes.append(216)
```

```
In [77]: cubes
```

```
Out[77]: [1, 8, 27, 65, 125, 216]
```

```
In [78]: cubes[3] = 64
```

```
cubes
```

```
Out[78]: [1, 8, 27, 64, 125, 216]
```

```
In [86]: a,b=0,1
while a<10:
    print(a)
    a,b = b , a+b
```

```
0
1
1
2
3
5
8
```

```
In [87]: a,b = 0,1
while a<100:
    print(a,end='*')
    a,b = b,a+b
```

```
0*1*1*2*3*5*8*13*21*34*55*89*
```

```
In [88]: i = 256*256
print('The value of i is',i)
```

```
The value of i is 65536
```

```
In [89]: a,b = 11,12
while a<=1000:
    print(a,end=",")
    a,b=b,a+b
```

```
11,12,23,35,58,93,151,244,395,639,
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```