

```
In [1]: 1 word = 'abcde'
```

```
In [2]: 1 for item in word:
2       print(word)
```

```
abcde
abcde
abcde
abcde
abcde
```

```
In [3]: 1 indexcount = 0
```

```
In [6]: 1 print(indexcount)
```

```
0
```

```
In [3]: 1 indexcount = 0
2       word = "abcde"
3       for letter in enumerate (word):
4           print (letter)
5           indexcount += 1
```

```
(0, 'a')
(1, 'b')
(2, 'c')
(3, 'd')
(4, 'e')
```

```
In [32]: 1 word = "abcde"
```

```
In [30]: 1 for index in enumerate(word):
2       print(word)
```

```
abcdef
abcdef
abcdef
abcdef
abcdef
abcdef
```

```
In [36]: 1 indexcount += 0
```

```
In [14]: 1 word = "abcde"
          2 for item,value in enumerate(word):
          3     print(item)
          4     print(value)
          5     print('\n')
```

0

a

1

b

2

c

3

d

4

e

```
In [17]: 1 mylist1 = [1,2,3]
          2 mylist2 = ['a', 'b', 'c']
```

```
In [20]: 1 for item in zip(mylist1,mylist2):
          2     print(item)
```

(1, 'a')

(2, 'b')

(3, 'c')

```
In [21]: 1 list(zip(mylist1,mylist2))
```

```
Out[21]: [(1, 'a'), (2, 'b'), (3, 'c')]
```

```
In [28]: 1 "a" in [1,'a', 23]
```

```
Out[28]: True
```

```
In [31]: 1 "nani" in ["nithin" , "nani"]
```

```
Out[31]: True
```

```
In [36]: 1 mylist= [1,2,3,4,5,6,7,8,9]
```

```
In [34]: 1 from random import shuffle
```

```
In [37]: 1 shuffle(mylist)
```

```
In [38]: 1 mylist
```

```
Out[38]: [2, 3, 5, 8, 7, 4, 9, 1, 6]
```

```
In [49]: 1 from random import randint  
2  
3
```

```
In [48]: 1 randint(10,100)  
2
```

```
Out[48]: 74
```

```
In [51]: 1 result = input('enter a number :')  
  
enter a number :22
```

```
In [52]: 1 float(result)
```

```
Out[52]: 22.0
```

```
In [53]: 1 int(result)
```

```
Out[53]: 22
```

```
In [56]: 1 str(result)
```

```
Out[56]: '22'
```

```
In [57]: 1 type(result)
```

```
Out[57]: str
```

```
In [58]: 1 mylist = ["hello"]
```

```
In [1]: 1 for item in mylist:
        2     mylist.append(item)
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-1-88cc767a9d04> in <module>
----> 1 for item in mylist:
      2     mylist.append(item)

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

```
In [6]: 1 mystring = "hello"
```

```
In [7]: 1 mylist = []
        2 for item in mystring:
        3     mylist.append(item)
```

```
In [8]: 1 mylist
```

```
Out[8]: ['h', 'e', 'l', 'l', 'o']
```

```
In [9]: 1 mylist = [item for item in mystring]
```

```
In [10]: 1 mylist
```

```
Out[10]: ['h', 'e', 'l', 'l', 'o']
```

```
In [11]: 1 mylist = [kinf for kinf in 'apple']
```

```
In [12]: 1 mylist
```

```
Out[12]: ['a', 'p', 'p', 'l', 'e']
```

```
In [13]: 1 mylist = [num**2 for num in range(0,11)]
```

```
In [14]: 1 mylist
```

```
Out[14]: [0, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
```

```
In [16]: 1 from random import randint
```

```
In [18]: 1 mylist = [num for num in randint(range(1,11))]
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-18-16d0020d6354> in <module>
----> 1 mylist = [num for num in randint(range(1,11))]
```

TypeError: randint() missing 1 required positional argument: 'b'

```
In [20]: 1 mylist = [num for num in range(0,11) if num%2== 0]
```

```
In [21]: 1 mylist
```

```
Out[21]: [0, 2, 4, 6, 8, 10]
```

```
In [24]: 1 celcius = [1,2,3,4,5]
2 farenheit = [(9/5 * temp + 32) for temp in celcius]
```

```
In [25]: 1 farenheit
```

```
Out[25]: [33.8, 35.6, 37.4, 39.2, 41.0]
```

```
In [26]: 1 farenheit = []
2 for temp in celcius:
3     farenheit.append(9/5 * temp + 32)
```

```
In [27]: 1 farenheit
```

```
Out[27]: [33.8, 35.6, 37.4, 39.2, 41.0]
```

```
In [31]: 1 farenheit = [item for item in celcius(9/5 * temp + 32) for temp in celcius]
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-31-6d51cad62bd1> in <module>
----> 1 farenheit = [item for item in celcius(9/5 * temp + 32) for temp in celc
ius]
```

TypeError: 'list' object is not callable

```
In [34]: 1 result = [x if x%2 ==0 else "odd" for x in range(0,11)]
```

```
result
```

```
In [35]: 1 result
```

```
Out[35]: [0, 'odd', 2, 'odd', 4, 'odd', 6, 'odd', 8, 'odd', 10]
```

```
In [40]: 1 mylist = [x*y for x in (0,11) for y in (11,20)]  
        2
```

```
In [41]: 1 mylist
```

```
Out[41]: [0, 0, 121, 220]
```

```
In [ ]: 1
```