

**User Defined functn to find len of the string**

```
In [46]: def findLen(str):  
        counter = 0  
        while str[counter:]:  
            counter += 1  
            print("c = ",counter)  
        return counter
```

```
In [47]: findLen("hello")
```

```
c = 1  
c = 2  
c = 3  
c = 4  
c = 5
```

```
Out[47]: 5
```

```
In [21]: # just for exploring some other details
```

```
a = "templ"  
ls = []  
ls.extend(a)  
  
print(ls)
```

```
['t', 'e', 'm', 'p', 'l']
```

```
In [22]: ls[0:]
```

```
Out[22]: ['t', 'e', 'm', 'p', 'l']
```

```
In [23]: ls[1:]
```

```
Out[23]: ['e', 'm', 'p', 'l']
```

```
In [24]: ls[2:]
```

```
Out[24]: ['m', 'p', 'l']
```

```
In [25]: ls[3:]
```

```
Out[25]: ['p', 'l']
```

```
In [26]: ls[4:]
```

```
Out[26]: ['l']
```

```
In [27]: ls[5:]
```

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

```
In [ ]:
```

```
In [45]: def tmp(st):  
          c = 0  
          while st[c]:  
              c+=1  
              print(c)  
          tmp("test")
```

```
1  
2  
3  
4
```

```
In [ ]:
```

```
In [4]: c = 0  
print("hello"[c:]) # when c is 0 nothing takes places it just prints the  
print(c)  
  
c+=1  
print("hello"[c:])  
print(c)  
  
c+=1  
print("hello"[c:])  
print(c)  
  
c+=1  
print("hello"[c:])  
print(c)  
  
c+=1  
print("hello"[c:])  
print(c)  
  
c+=1  
print("hello"[c:])  
print(c)
```

```
hello  
0  
ello  
1  
llo  
2  
lo  
3  
o  
4  
5
```

**User defined function to find range**

```
In [5]: # For getting range
def createList(start, end):
    lists = []
    while start < end:
        print("\nstart = ",start)
        print("end = ",end)
        lists+= [start]
        print("\nlists = ",lists)
        start+=1
    print("final list : ",lists)
    return lists
```

In [6]: `createList(1,10)`

```
start = 1
end = 10

lists = [1]

start = 2
end = 10

lists = [1, 2]

start = 3
end = 10

lists = [1, 2, 3]

start = 4
end = 10

lists = [1, 2, 3, 4]

start = 5
end = 10

lists = [1, 2, 3, 4, 5]

start = 6
end = 10

lists = [1, 2, 3, 4, 5, 6]

start = 7
end = 10

lists = [1, 2, 3, 4, 5, 6, 7]

start = 8
end = 10

lists = [1, 2, 3, 4, 5, 6, 7, 8]

start = 9
end = 10

lists = [1, 2, 3, 4, 5, 6, 7, 8, 9]
final list : [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

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

In [50]: `for i in range(4):  
 print(i)`

```
0
1
2
3
```

```
In [8]: for i in [1, 2, 3, 4, 5, 6, 7, 8, 9]:  
        print(i)
```

```
1  
2  
3  
4  
5  
6  
7  
8  
9
```

```
In [ ]:
```