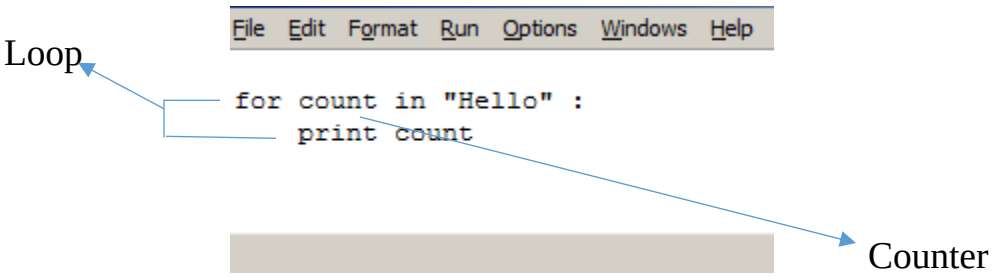
Python – For Loops

The **FOR** statement works a little differently than the **WHILE**. It has a built in counter. It also works with **text** or **numbers**:

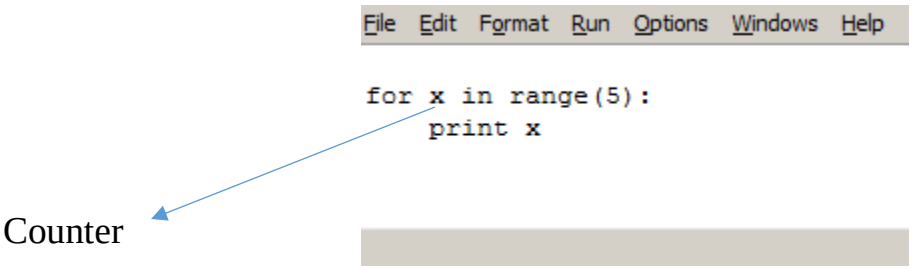


The Counter "count", will look at the text, 1 letter at a time and loop until it runs out of letters.

Output :

```
H
e
l
l
o
```

For numbers, you have to specify the **range ( ),** for the counter.

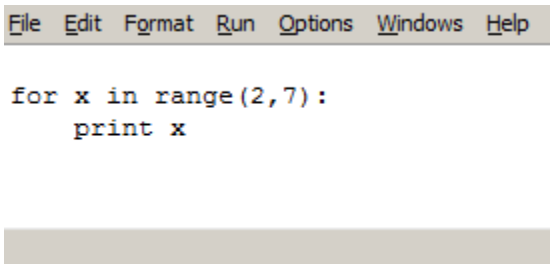


The Counter "x", automatically has a starting value of 0 and increments by 1's. **range(5)** tell it to loop until x=5 (it does not perform the loop when x=5)

Output :

```
0
1
2
3
4
```

To Specify a different starting value (besides 0) :



Range(2,5) - counts from 2 to 7 (not including 7)

Output :

```
2
3
4
5
6
```

To Increment by a different value than 1 :

File Edit Format Run Options Windows Help

```
for x in range (2,10,2):
    print x
```

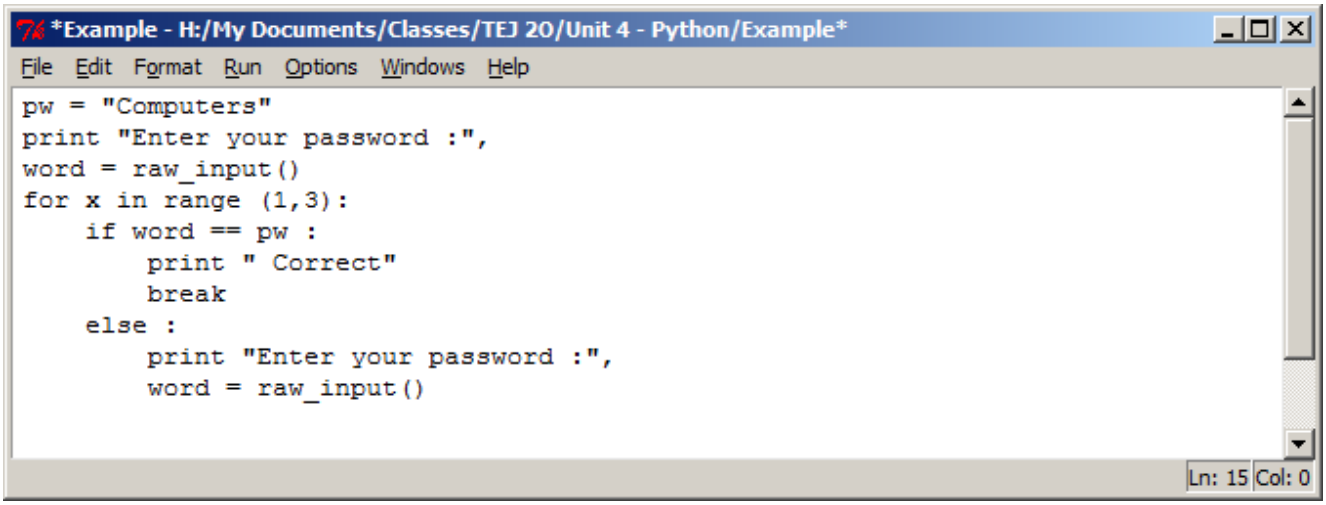
Range(2,10,2) - counts from 2 to 10 (not including) by increments of 2's

Output :

```
2
4
6
8
```

Exiting a Loop early :

* **Break** will exit a loop



* Ask for password (pw) if correct – Breaks loop, otherwise gives them 2 more attempt (loops from 1 to 2)