

## Python Laboratory 13 – For While Loop (Lab13\_while.py)

**Lab 01 :** Implement a program that requests from the user a list of words (i.e., strings) and then prints on the screen, one per line, all four-letter strings in the list.

Enter word list: ['stop', 'desktop', 'top', 'post']

Prints on the screen, one per line

```
#lab01
list = ['stop','desktop','top','post']
print("One per line")
for word in list :
    print(word)
```

```
One per line
stop
desktop
top
post
```

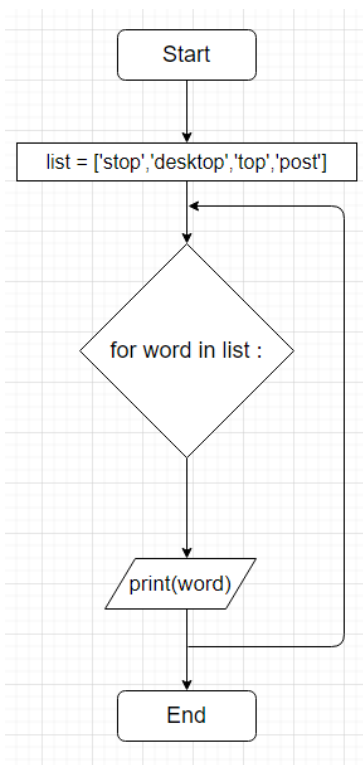
ใช้ for in list ให้แสดง str จาก list ทีละบรรทัด

all four-letter strings in the list.

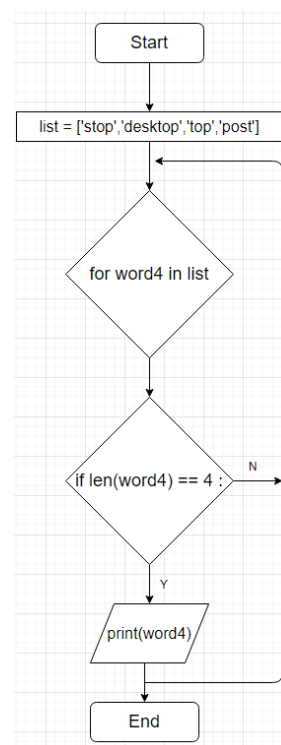
```
print("all four-letter strings in the list")
for word4 in list :
    if len(word4) == 4 :
        print(word4)
```

```
all four-letter strings in the list
stop
post
```

ใช้ for word4 in list : กำหนดเงื่อนไขว่า ถ้า len(word4) == 4 ให้ print(word4)



Prints on the screen, one per line



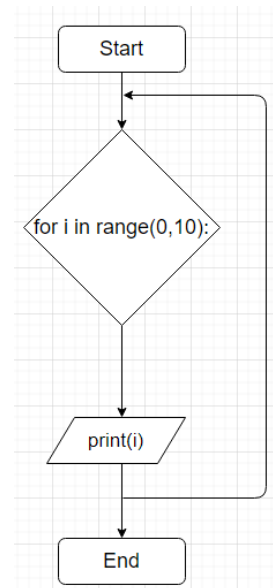
all four-letter strings in the list.

**Lab02 :** Write the for loop that will print these sequences of numbers, one per line, in the interactive shell.

- (a) Integers from 0 to 9 (i.e. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9)

```
for i in range(0,10):
    print(i)
```

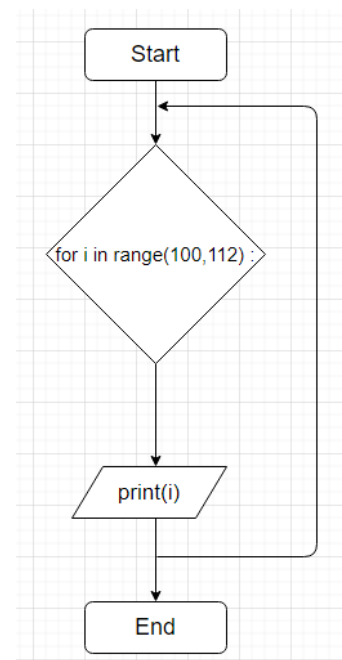
```
0      กำหนด i in range(0,10) #0 1 2 3 4 5 6 7 8 9
1
2      จากนั้น print(i)
3
4
5
6
7
8
9
```



- (b) Integer from 100 to 111 (i.e 100, 101, .. , 111)

```
for i in range(100,112) :
    print(i)
```

```
100    กำหนด i in range(100,112) #100 ถึง 111
101
102    จากนั้น print(i)
103
104
105
106
107
108
109
110
111
```



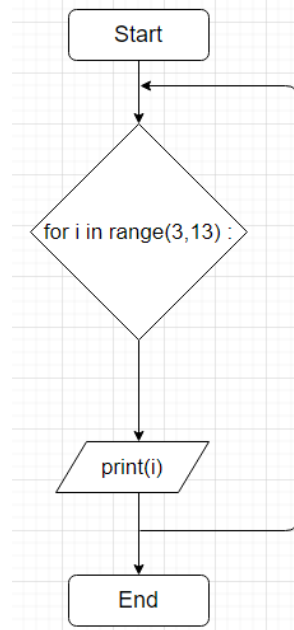
Lab 03 : Write the for loop that will print the following sequences of number, one per line.

(a) Integers from 3 up to and including 12

```
for i in range(3,13) :
    print(i)
```

กำหนดให้ for i in range(3,13) : จากนั้น #3-12  
print(i)

```
3
4
5
6
7
8
9
10
11
12
```

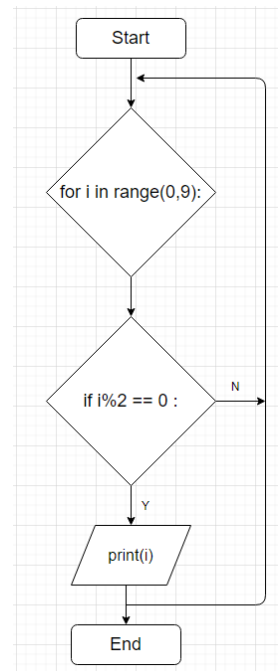


(b) Integers from 0 up to but not including 9, but with a step of 2 instead of the default of 1 (i.e., 0, 2, 4, 6, 8)

```
for i in range(0,9):
    if i%2 == 0 :
        print(i)
```

กำหนดให้ for i in range(0,9):  
กำหนดเงื่อนไข if i%2 == 0 : ถ้าหาร 2 แล้วไม่เหลือเศษ ให้  
print(i)

```
0
2
4
6
8
```

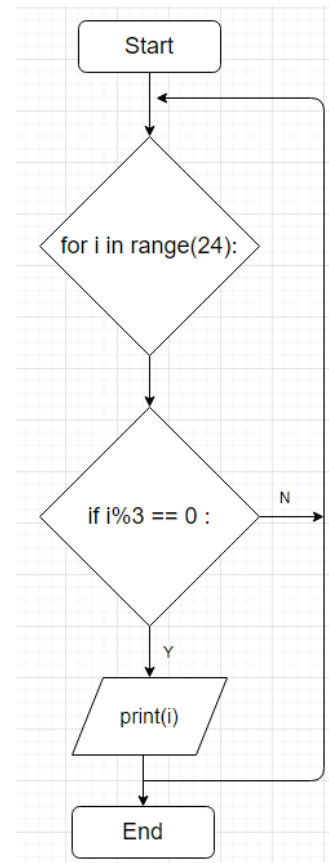


(c) Integers from 0 to but not including 24 with a step of 3

```
for i in range(24):
    if i%3 == 0 :
        print(i)
```

กำหนดให้ for i in range(24) : 0 ถึง 23 ไม่รวม 24  
กำหนดเงื่อนไข if i%3 == 0 : ถ้าหาร 3 แล้วไม่เหลือเศษ ให้  
print(i)

0  
3  
6  
9  
12  
15  
18  
21



(d) Integer from 3 up to but not including 12 with a step of 5

```
#03D
for i in range(3,12,5) :
    print(i)
```

3  
8

กำหนด for i in range(3,12,5) : โดยให้แสดงจำนวนเต็มตั้งแต่ 3 แต่ไม่ถึง 12 เพิ่มขึ้นทีละ 5  
print(i)

