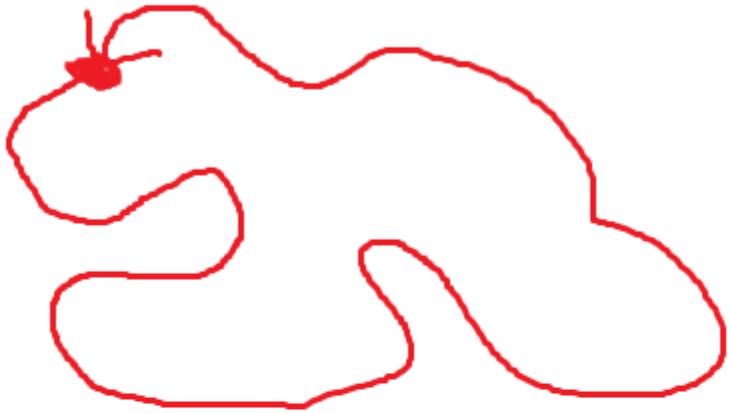


Looping Statments

Loop = Repetation (Iteration)



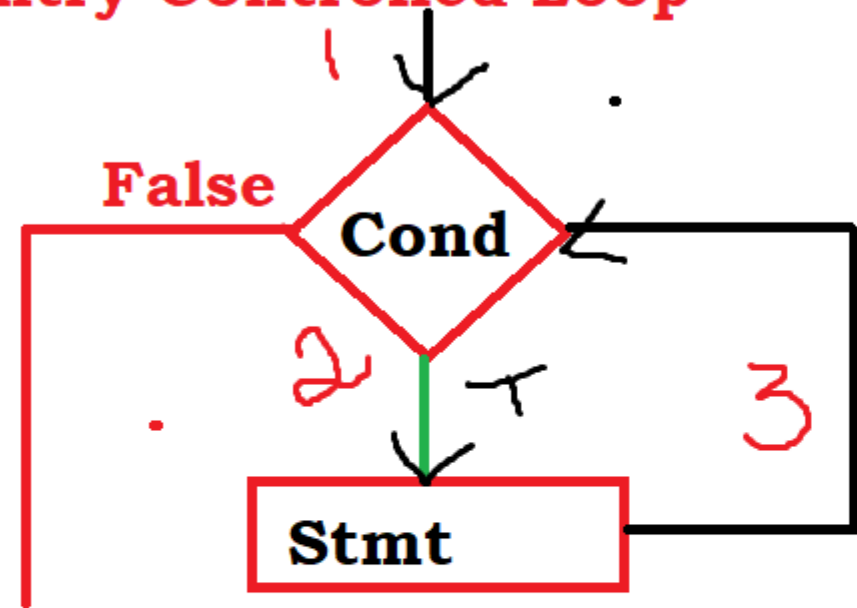
Formal Definition

The Statments which are can be executed more than once until some condition get False is known as Looping Statments.

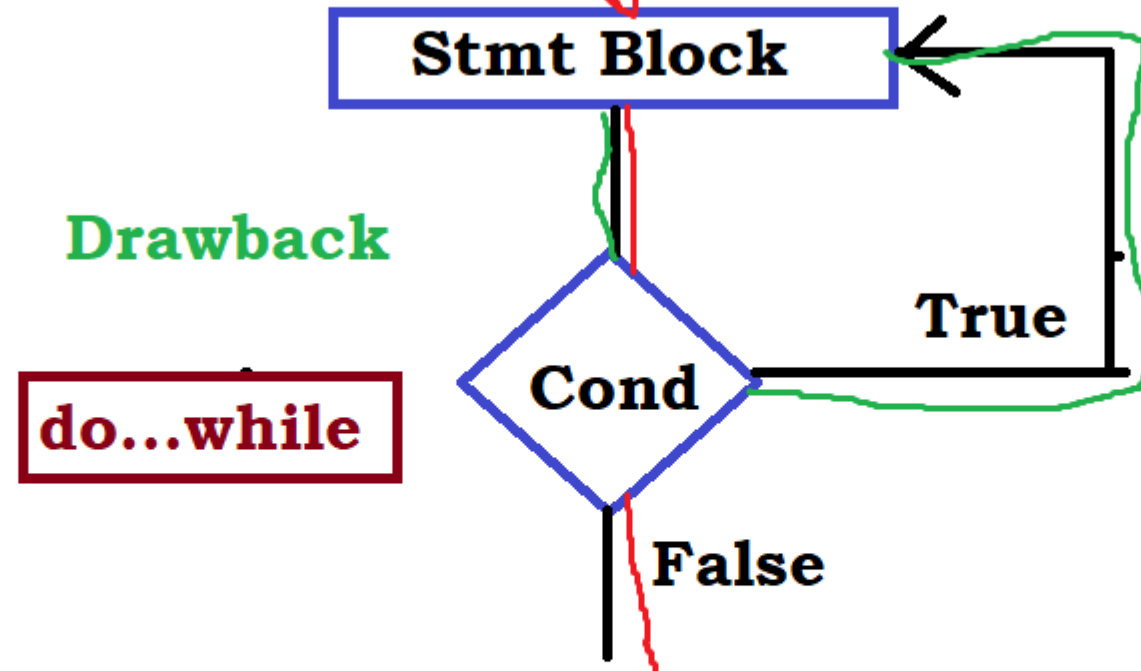
If Start & End point is Same then we can Consider as Loop

Types of Loop

Entry Controlled Loop



Exit Controlled Loop



Types of Loop Statments

while Loop
for Loop

1. While Loop (Entry Controlled Loop)

while(Condition) :

STMT-Block

```
a=1  
b=5  
while( a <= 5) :  
    print(a)  
    a+=1
```

a=1

b=5

while(a<=5):

print("Before",a)

a+=1

print("After:",a)

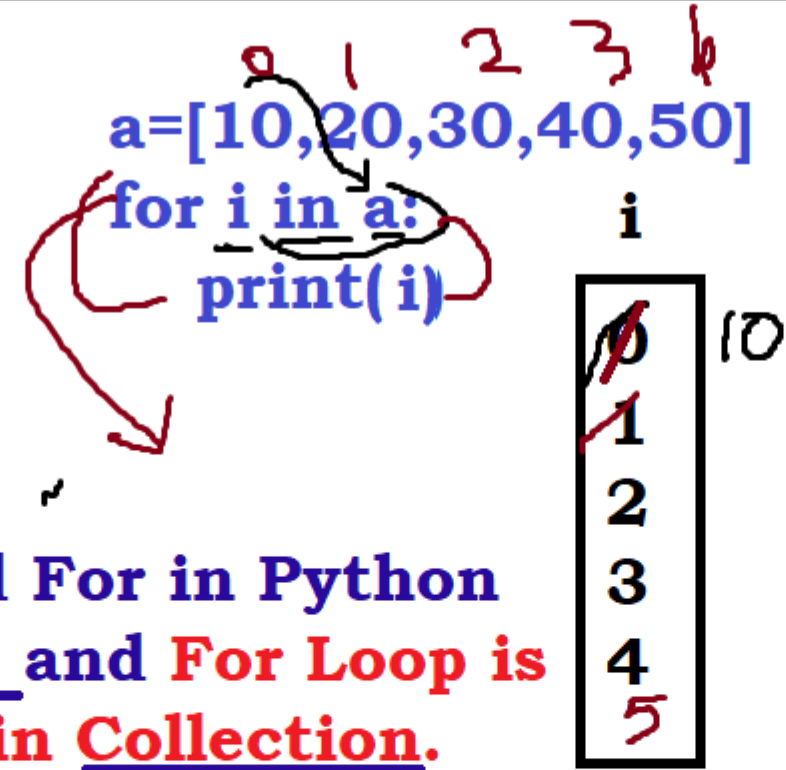
N + 1

a		b	Ba	Aa	OP	
1	<=	5	1	2	1	6
2	<=	5	2	3	2	
3	<=	5	3	4	3	
4	<=	5	4	5	4	
5	<=	5	5	6	5	
6	<=	5				

For Loop (Entry Controlled Loop)

```
for Iterator in Collection/Range :  
  
    Stmt - Block
```

The Main Difference B/W While and For in Python is While Specifically used for Series and For Loop is used to Print the Values which are in Collection.



OP

- 10
- 20
- 30
- 40
- 50