**LOOPS**

**Loop means:** Looping statement are used to execute the set of statements repeatedly.

It has two types of looping statements

1. **While loop**
2. **For loop**

While loop: In while loop it executes the set of statements or block repeatedly until the condition becomes false.

Syntax:

While (condition):

Statement1

Statement2

i=2  
while (i<=50):  
 print(i)  
 i=i+2

Output:

2

4

6

8

10

12

14

16

18

20

22

24

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42

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46

48

50

**For loop:** In for loop it executes the set of statements or block with repeat to every element of the stings or collection (list, tuple, set...) objects.

Syntax:

For variable name in sequences:

Statement1

Statement2

Statement3

a=[1,2,3,4,5]  
for i in a:  
 print(i)

Output: 1

2

3

4

5

**Range ():** we have to give some range to this then it will display the values in an order.

Syntax: range (start, stop, step)

If we don’t give any value for start by default it will take as 0 and step by default it will take as 1.

It will print like 0 to (n-1).

for i in range (2, 21, 2):  
 print(i)

Output: 2

4

6

8

10

12

14

16

18

20