

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Baghdad-ul-Jadheed campus

Submitted to:

Sir Reehan Faheem

Submitted by:

Faria Safdar

Program:

BS CS Eve, A

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Subject:

Web Design & Framework

Roll no:

SP20M2BB041

Chapter-7

Loop in Python

➤ Loops:

A loop is used for repetition

❖ Types loop are given:

- i. For loop
- ii. While loop

1. For loop:

▪ **Definition:**

A for loop is used for iterating over a sequence.

1. For loop with else
2. For loop with range

2. While loop:

▪ **Definition:** A while loop will run a piece of code while a condition is True.

+ quiz of programs:

```
python > loop.py > ...
1  # two types of loop in python
2  #for loop
3  #while loop
4  # for loop
5  l = [2,4,6]
6  for values in l:
7      print("lis is" ,values)
8  #range function
9  for i in range(1,7):
10     print("range is:", i)
11 #for loop with else
12 l = ['ali', 'alia', 'waseam']
13 for name in l:
14     print("loop eith eles is",name)
15 else:
16     print("done")
17 # while loop
18 # write a program to print 1 to 10 using while loop
19 x = 1
20 while(x<=10):
21     print("halo alia")
22     x=x+1
23
24
```

output:

```
python > loop.py > ...
1  # two types of loop in python
2  #for loop
3  #while loop
4  # for loop
5  l = [2,4,6]
6  for values in l:
7      print("lis is" ,values)
8  #range function

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
range is: 4
range is: 5
range is: 6
loop eith eles is ali
loop eith eles is alia
loop eith eles is waseam
done
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
halo alia
PS D:\software h>
```

➤ Break statements:

Break in Python is a loop control statement. It is used to control the sequence of the loop.

➤ Continue statements:

The continue statement in Python returns the control to the beginning of the while loop.

EXAMPLES:

```
python > breakst.py > ...
1  #break statment
2  for i in range(0,4):
3      if(i==2):
4          break
5  print(i)
6  print("loop ko chor kar nikal jao")
7  #continue statment
8  for i in range(1,6):
9      if (i==1):
10         print("skip the iteration 2")
11         continue
12         print(i)
13
14  # pass staement
15  l = [1,3,6]
16  for item in l:
17      pass
```

Output:

```
10 |         print( skip the iteration 2 )
11 |     continue
12 |     print(i)
13 |
14 |     # pass staement
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```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL + v

```
PS D:\software h> python -u "d:\software h\python\breakst.py"
2
loop ko chor kar nikal jao
skip the iteration 2
PS D:\software h>
```