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Chapter # 6

➤ loops:

A for loop is used for iterating over a sequence

❖ 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
15  for item in l:
16      pass

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
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>
```

python > conditional statement.py > ...

```
25 # relational opeator
26 # relational opeator used evaluate condition
27 # >= , <=, ==
28 value = 25
29 # less than equal
30 print (value >=12)
31 # greater than equal to
32 print (value >=22)
33 # equal to
34 print (value == 26)
35 # logical operator
36 # loical opeatir opearte on condional statement
37 # and ,not ,or
38 age= 25
39 #and opear
40 if age >=28 and age <12:
41     print("you are eligible\n")
42 else:
43     print("you are not eligible\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

True
False
you are not eligible

temprature is good

whether is cloudy

PS D:\software h>

+ v ...
powershell
Code

Activate Windows