Ch-7

(LOOPS IN PYTHON)

Primarily two types of loops in python

-for loop it is used to iterate through a sequence like list tuple or string[iterables]

Syntax of for loop

l=[1,7,8]

for item in l:

print (item)🡺prints 1,7 and 8

&

-while loop

Syntax:

while conditions:

#body of the loop

Range function in python

It is used to generate a sequence of numbers.

We can also specify the start, stop and step-size as follows:

Range(start,stop,step-size)🡺step-size is usually not used with range

For loop with else

An optional else can be used with a for loop if the code is to be executed when the loop exhausts.

Example:

l= [1,5,6]

For item in l:

Print(item)

Else:

Print(“done”)

Output:

1

5

6

Done

Break statement

“Break” is used to come out of the loop when encountered . it instructs the program to exit-the loop

now

eg:

for I in range(0,80):

print(i)

if(i==3):

break

output:

0

1

2

3

The continue statement

“continue” Is used to stop the current iteration of the loop and continues with the next one.it instructs the program to “skip the iteration”

Ex:

For i in range(4):

Print(“sambidhan”)

If i==2:

Continue

Print(i)

Pass statement

“pass” is a null statement in python.it instructs to “do nothing”

Example:

l=[1,2,3]

For item in l:

Pass 🡺without pass the program throws an error