

15-09-25

Break:

\* The break statement is used to exit a loop immediately, even if the loop condition is still true.

\* After breaking, the program continues with the next statement outside the loop.

Syn:

for/while loop:-

if condition:  
break.

Eg:

```
for i in range(1,10):
```

```
    if i == 5:  
        break
```

```
    print(i)
```

o/p:

1

2

3

4

CONTINUE:-

\* The continue statement skips the current iteration and goes to the next iteration of the loop.

\* Unlike break, the loop doesn't exit

completely

Syn:

for/while loop:

if condition:  
continue

Ex: for i in range (1, 10):

if (i == 5): → In

continue

print (i):

o/p

1  
2  
3  
4  
6  
7  
8  
9

then It will not

Not print i

o/p if

Satisfies the

Condition

2) WHILE LOOP:-

\* It is used to repeat a block of code as long as a  
Given Condition is True.

\* It will keep running until the Given Condition  
becomes false

Syn: Initialization

while (Condition):

# Statement / Code block

# must Update the Variables Inside,  
otherwise infinite loop

Condition ⇒ Expression that evaluates to True or  
False

Code block ⇒ Statements that will  
run repeatedly

\* Indentation is most important in python

\* If the Condition never becomes false, the loop will  
run infinitely



Eg. Simple Counter:

$i = 1$

while  $i \leq 5$ :

print ("No":  $i$ )

$i = i + 1$

O/p:-

No: 1

No : 2

No : 3

No : 4

No : 5

INFINITE loop [with break]

Count = 1

while True: # runs forever

print ("Count:", Count)

if Count == 3:

break # stop loop

Count += 1

O/p:

Count: 1

Count : 2

Count : 3. (infinite)

program to print the value of each position

s = 'python'

i = 0

while  $i < \text{len}(s)$ :

print (s[i]) # In these step it is the

$i = i + 1$

to print position by above condition according to the index value

O/p