

15/9/25

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

e.g., for i in range(1, 10):

if (i == 5):

break

print(i)

3

4

continue:

- continue skips the current iteration and goes to the next iteration of the loop.

→ the loop doesn't exit completely

Syn:

for/while loop:

if condition:

continue

e.g., for i in range(1, 10):

if (i == 5):

continue

print(i):

O/P: 1

2

3

4

6

7

8

9

2) while loop

→ It is used to repeat a block of code till the given condition is True.

→ It will keep running until the given condition becomes false.

Syn : Initialization

while (condition):

statement / code block
update variables.

condition => expression that evaluates whether True or False.

→ If condition never becomes false, the loop will run infinitely.

e.g; ~~i = 1~~ i = 1
while i <= 5
print("i")
i = i + 1

O/p: 1
2
3
4
5

Infinite loop with Break:

```
count = 1
while True:
    print(count)
    if (count == 3):
        break
    count += 1
```

O/p
1
2
3 infinite