What is while loop?

A while loop in python is used to execute a block of code as long as a condition is true

Syntax:

while condition:
    # code to execute.

Ex: printing numbers from 1 to 5 using while loop.

```
Count = 1
while Count <=5:
    print (count)
    count + =1
```

o/p: 1
      2
      3
      4
      5

Infinite while loop in Python:

An infinite loop occurs when the condition in the while statement never becomes False. this results in an endless execution

True:
Print ("This is an infinite loop")

While loop with continue statement:

The continue statement occurs skips the remaining code in the current iteration and moves next to iteration,

Ex:

```
num = 0

While num < 10:
    num += 1
    print
    if num % 2 == 0:
        continue
    print (num)
```

O/P:
1
3
5
7
9

While loop with break statement:

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

Ex:
```
num = 1
While num <= 10:
    print (num)
    if (num == 5:
        break
        num += 1
```

O/P:
1
2
3