

Loops



Loops in Python

- When we want to run a piece of code repetitively while iterating over an object we use loops in python.
- We will be studying two such types of loops here which are : For loop and While loop

For loop :

- In Python, the for loop is often used to iterate over iterable objects such as lists, tuples, or strings. If we have a section of code that we would like to repeat a certain number of times, we use for loops.
- The for statement in Python traverses through the elements of a series, running the block of code each time.

Syntax:

for value in sequence:
 Code in loop

While loop:

- The while loop in Python is used to iterate over a block of code as long as the test expression (condition) is true.
- While loop falls under the category of **indefinite iteration**.
- Indefinite iteration means that the number of times the loop is executed isn't specified explicitly in advance

Syntax:

While condition:
 Code block