

'while' loop - basics:

A while loop statement in Python programming language repeatedly executes the code inside it, as long as a given condition is true.

Main differences between 'for' loop and 'while' loop:

- We have seen that 'for' loops are 'scanning' in sort of speak - collections / variables for one-by-one.
By help of 'if' statements can apply code flow inside it.
- In 'while' loops it's a bit different, we mention a 'condition' right where we declare the loop, as long as this condition is 'true', we keep running the cycles upon the 'while' loop.

Example:

In the simplest way, we can create a variable, number = x that will work as a counter.

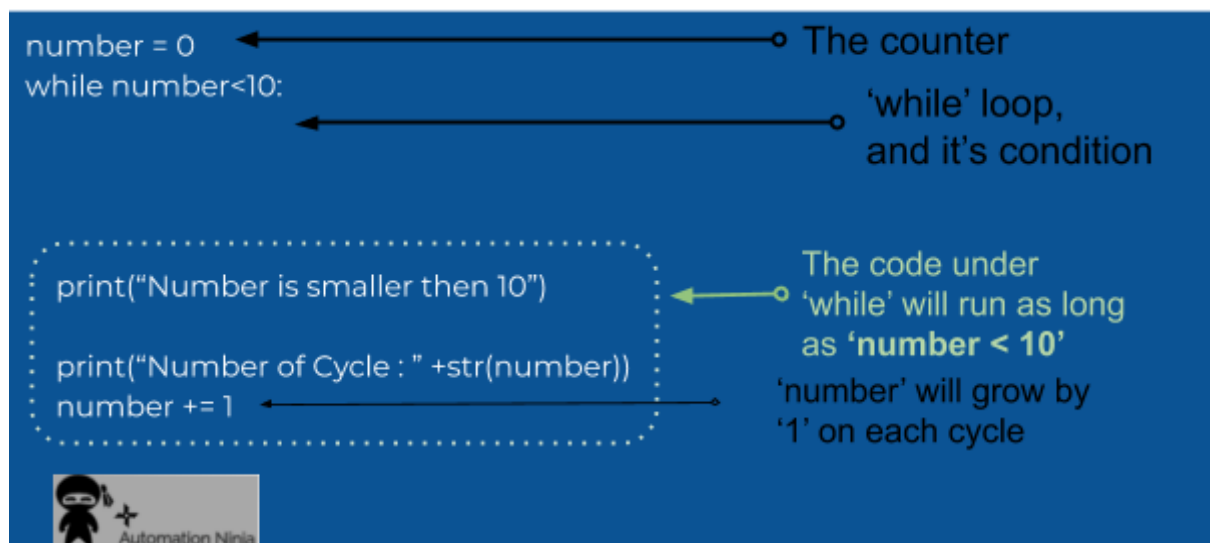
Then, we define a 'while' loop with the condition : while number<10

Or in human language:

"while 'number' is smaller then 10, keep running"

The loop will keep running in cycles, and on each cycle 'number' will grow by '1', until it reaches the 'while' loop's limit.

Code :



In theory, the code flow looks like this:

