

**What is a for loop?**

In programming, a for loop is a conditional iterative statement which repeats a section of code known number of times until a certain condition is met.

**How is iteration done in a for loop?**

- i++: the variable ‘i’ increases by one every time the loop is executed.
- i--: the variable ‘i’ decreases by one every time the loop is executed.
- i+=n: the variable ‘i’ increases by n every time the loop is executed.
- i-=n: the variable ‘i’ decreases by n every time the loop is executed.

**How does a loop know when to stop?**

A loop knows when to stop because there is a condition in the loop that keeps the loop running. If the condition is evaluated to true, the loop continues to run. If the condition evaluates to false, the for loop stops running. For instance, if we have a condition that will always evaluate to false, the loop will never run. Opposite to that, if we have a condition that will always evaluate to true, the loop run forever.

**How the computer reads a string**

String var = “java”

0	1	2	3
j	a	v	a

**String Methods**

String.length()	The String.length() function returns the length of the string b
variable.substring(var)	This function will return the variable string from the range va
variable.substring(var, varTwo)	This function will return the variable string from the range va
variable.indexOf(string)	This function is used to find the string in the variable, and re
variable.charAt(int)	This function returns the character found in the int location c