**Python Loops**

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The looping simplifies the complex problems into the easy ones. It enables us to alter the flow of the program so that instead of writing the same code again and again, we can repeat the same code

for a finite number of times.

For example, if we need to print the first 10 natural numbers then, instead of using the print statement 10 times,

We can print inside a loop which runs up to 10 iterations.

**Advantages of loops**

There are the following advantages of loops in Python.

1. It provides code re-usability.

2. Using loops, we do not need to write the same code again and again.

3. Using loops, we can traverse over the elements of data structures (array or linked lists).

There are the following loop statements in Python.

1. for loop

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The for loop is used in the case where we need to execute some part of the code until the given condition is satisfied.

It is better to use for loop if the number of iteration is known in advance.

2.while loop

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The while loop is to be used in the scenario where we don't know the number of iterations in

advance.

The block of statements is executed in the while loop until the condition specified in the while loop is satisfied.

It is also called a pre-tested loop.

3.do-while loop

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The do-while loop continues until a given condition satisfies.

It is also called post tested loop. It is used when it is necessary to execute

the loop at least once (mostly menu driven programs).