





Quote of the day



"The only way to learn a new programming language is by writing programs in it."





Table of Content What will We Learn Today?

- I. Introduction to Iteration
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Introduction

For each package, they will deliver it to each customers until there is no more packages left in the box.



https://mobilbox.id/







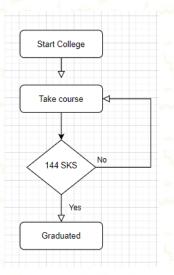
College students who go to their college and aiming to finish 144 SKS







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In programming, iteration is a sequence of instruction that is continually repeated. The programming language will tracks what step of the iteration is currently being executed. Basically, the iteration will repeated until the termination condition is met.

In Python, we could do these types of iteration:

- 1. Iterate until a certain condition is reached.
- 2. Iterate until certain number of times.
- 3. Iterate through elements in a list or array.

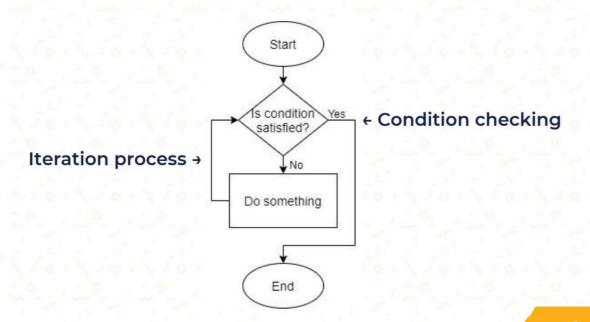






Every iteration must have these two parts:

- 1. Condition checking
- 2. Iteration process







While Loop

In Python, While Loops is used to execute a block of statements repeatedly until a given condition is satisfied and when the condition becomes false, the line after the loop in the program is executed.

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.

while <expression>:
 <statement>





For loops, in general, are used for sequential traversal. For example: traversing a list or string or array etc. It falls under the category of definite iteration. Definite iterations means the number of repetitions is specified explicitly in advance





Nested Loop

Nested loop is a loop inside a loop.

The inner loop will be fully executed for each iteration of the outer loop.







Sometimes, instead of following our loop condition, we just want to do another thing besides of our defined loop condition. These statements might help.

- · break, will terminate the current loop and continue to the next line after the loop
- · continue, will reject the remaining statements in the current loop and continue to the next iteration
- · pass, used when a statement is required syntactically but do not want any code to be executed





Congratulations! You have finished learning about conditions.



Introduction to Iteration



Nested Iteration



Flowchart of Iteration



Loop Control



While Statement



For Statement



Thank YOU

