

# Importance of loops in computer programming

Published on July 26, 2014



Fareed Siddiqui, BBA, MBA-Fin, MPhil-Fin, (PhD) | [Follow](#)  
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Loop can be defined as one of the basic logical structures of computer programming. Defining loops in codes allows computers to perform particular tasks repeatedly. The need for defining the loop in a computer program arises for various reasons depending on the tasks to be performed. Computer programming languages require loops, so that the codes execute the actions as many times as needed. There are various loops used in computer programming. For loops, while loops and do while loops are the most common loops.

It is through the loop structure that the computer performs particular tasks until no action is required. For example, if a

software developer develops a software module for payroll processing that needs to compute the salaries and the allowances (for a particular month) of all the employees belonging to a particular cost center, he needs to define the loop accordingly. So, the computer begins to compute the salaries and allowances of all the employees until it accomplishes this task for all the employees of that particular cost center. Similarly, in order to get print outs of the pay-slips of all the employees of a particular cost center requires a loop to be assigned, so that the pay slips for all the employees in a cost center can be generated and printed accordingly. Likewise, loops can be employed to pick the data belonging to various accounts, such as, current and long term assets, current and long term liabilities, capital, revenues and expenses, which may in turn help to prepare trial balance, income statement, balance sheet, cash flow statement and other reports that are needed by the management.

Loops in computer programming are so important that they can perform tasks within seconds while reducing, to a great extent, time and efforts of the users. If the same activity that is done with the help of loops, is done manually, It would take hours and

to be performed. Loops, on the one hand, execute the tasks faster saving the time and energy, on the other hand, they are very helpful to accomplish the tasks in an accurate manner.

Loops are one of the most powerful concepts of computer programming facilitating the programmers or software developers to create such software modules or programs that are effective and efficient and to meet the requirement of the business needs

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**Fareed Siddiqui, BBA, MBA-Fin, MPhil-Fin, (PhD)**

Individual Member of Institute of Management Consultants of India-IMCI; Pursuing CMA-...

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