MATLAB - LOOP TYPES

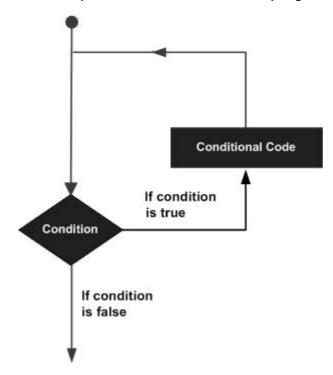
http://www.tutorialspoint.com/matlab/matlab loops.htm

Copyright © tutorialspoint.com

There may be a situation when you need to execute a block of code several number of times. In general, statements are executed sequentially. The first statement in a function is executed first, followed by the second, and so on.

Programming languages provide various control structures that allow for more complicated execution paths.

A loop statement allows us to execute a statement or group of statements multiple times and following is the general form of a loop statement in most of the programming languages —



MATLAB provides following types of loops to handle looping requirements. Click the following links to check their detail —

Loop Type	Description
while loop	Repeats a statement or group of statements while a given condition is true. It tests the condition before executing the loop body.
<u>for loop</u>	Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable.
nested loops	You can use one or more loops inside any another loop.

Loop Control Statements

Loop control statements change execution from its normal sequence. When execution leaves a scope, all automatic objects that were created in that scope are destroyed.

MATLAB supports the following control statements. Click the following links to check their detail.

Terminates the **loop** statement and transfers execution to the statement immediately following the loop.

Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating.