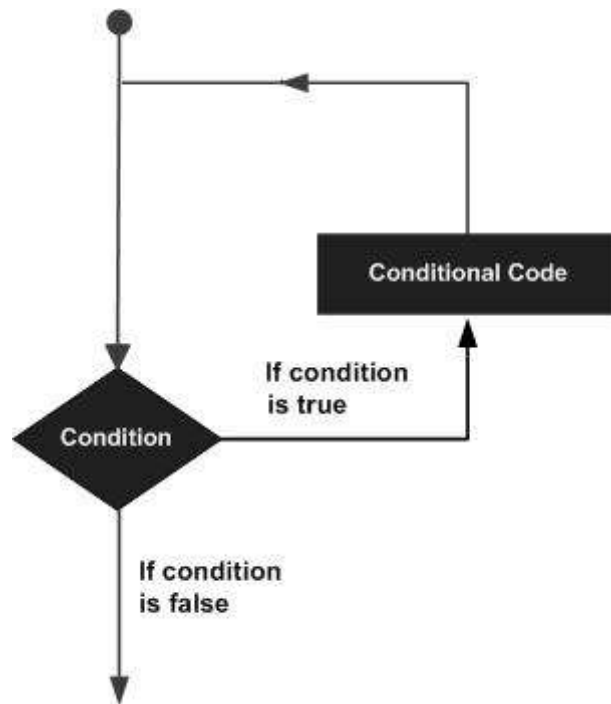


## Arduino - Loops

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 –



C programming language provides the following types of loops to handle looping requirements.

S.NO.	Loop & Description
1	<p>while loop</p> <p>while loops will loop continuously, and infinitely, until the expression inside the parenthesis, () becomes false. Something must change the tested variable, or the while loop will never exit.</p>
2	<p>do...while loop</p> <p>The <b>do...while</b> loop is similar to the while loop. In the while loop, the loop-continuation condition is tested at the beginning of the loop before performed the body of the loop.</p>
3	<p>for loop</p> <p>A <b>for loop</b> executes statements a predetermined number of times. The control expression for the loop is initialized, tested and manipulated entirely within the for loop parentheses.</p>
4	<p>Nested Loop</p> <p>C language allows you to use one loop inside another loop. The following example illustrates the concept.</p>
5	<p>Infinite loop</p> <p>It is the loop having no terminating condition, so the loop becomes infinite.</p>