C# Do While Loop

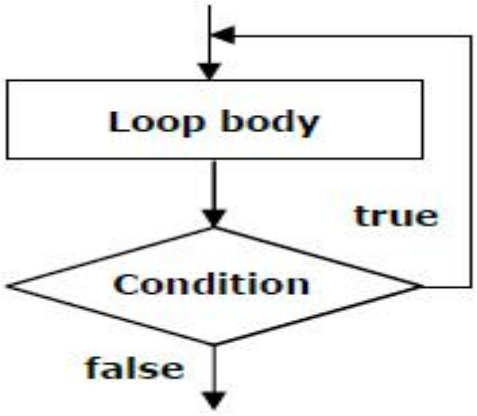
do while loop treats same as while loop but only differences between them is that, do while executes **at least one time**.

In **while**, the specified loop condition evaluated first then executes the code. But in **do while**, code executes first then check for specified loop condition.

This type of loops is called **post-test loop** (loops with condition at the end). A do-while loop looks like this:

```
do
{
   executable code;
} while (condition);
```

By design do-while loops are executed according to the following scheme:



Initially the **loop body** is executed.

Then its condition is checked. If it is **true**, the loop's body is **repeated**, otherwise the loop **ends**.

This logic is repeated until the condition of the loop is broken.

Sample Program:

```
using System;
using System.Collections.Generic;
```

```
.  using System.Linq;
.  using System.Text;
.
.  namespace do_while
.  {
.      class Program
.      {
.          static void Main(string[] args)
.          {
.              int table, i, res;
.              table = 12;
.              i = 1;
.              do
.              {
.                  res = table * i;
.                  Console.WriteLine("{0} x {1} = {2}", table, i, res);
.                  i++;
.              }
.              // must put semi-colon(;) at the end of while condition in do...while loop.
.              while (i <= 10);
.
.              Console.ReadLine();
.          }
.      }
.  }
```

Note: You must put **semi-colon(;)** at the end of while condition in do…while loop.

Output

```
12 x 1 = 12
12 x 2 = 24
12 x 3 = 36
12 x 4 = 48
12 x 5 = 60
```

12 x 6 = 72

12 x 7 = 84

12 x 8 = 96

12 x 9 = 108

12 x 10 = 120