Do...While Loop

(Count-Controlled Loop)

Condition Controlled Loops: - Do..While and While Loops

Do...while Loop (written in C#)

```
using System;

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public class Program
{
        public static void Main()
        {

                int j;
                j = 1;
                Console.WriteLine("j= "+ j);
                Console.WriteLine("Hello - I am now going to enter the Do..while loop\n");
                do
                {

                        Console.WriteLine("Hello - I am within the Do...While Loop");
                        j = j+1;
                        Console.WriteLine("j " +j + "\n");
                }
                while (j ==0);
                Console.WriteLine("Bye - I have just come out of the Do...While Loop");
                Console.WriteLine("j " +j + "\n");
        }
}
```

While Loop (written in C#)

```
using System;
public class Program
{
        public static void Main()
        {
                int j = 1;
                Console.WriteLine(" j= " +j);
                Console.WriteLine(" I am going to try and enter the while loop");
                while (j == 0)
                {
                 Console.WriteLine(j);
                j++;
                }
                Console.WriteLine(" j= " +j);
                Console.WriteLine(" I am out of the while loop");
        }
}
```

Output

```
j= 1
Hello - I am now going to enter the Do..while loop

Hello - I am within the Do...While Loop
j 2

Bye - I have just come out of the Do...While Loop
j 2
```

Output

```
j= 1
 I am going to try and enter the while loop
 j= 1
 I am out of the while loop
```

Do..While and While Loops Compared

	While	**Do….While**
1	Condition is checked first then statement(s) is executed.	Statement(s) is executed at least once, thereafter condition is checked.
2	It might occur statement(s) is executed zero times, if condition is false.	At least once the statement(s) is executed.
3	while loop is entry controlled loop.	do-while loop is exit controlled loop.

For, Do..While and While Loop - Question

What is the Output of these Programs? (written in C#)

Program 1 using a FOR loop

```csharp
for (int i = 0; i < 5; i++)
{
  Console.WriteLine(i);
}
```

Program 2 using a WHILE loop

```csharp
int i = 1;
while (i < 6)
{
  Console.WriteLine(i);
  i++;
}
```

Program 3 using a DO...WHILE Loop

```csharp
int i = 1;
do
{
  i++;
  Console.WriteLine(i);

}
while (i < 6);
```

For, Do..While and While Loop - Question & Answer

What is the Output of these Programs?

Program 1

```
for (int i = 0; i < 5; i++)
{
  Console.WriteLine(i);
}
```

Program 2

```
int i = 1;
while (i < 6)
{
   Console.WriteLine(i);
   i++;
}
```

Program 3

```
int i = 1;
do
{
   i++;
   Console.WriteLine(i);

}
while (i < 6);
```

Output

0
1
2
3
4

Output

1
2
3
4
5

Output

2
3
4
5
6

That's all for now folks!!