LAB GOALS

To develop console application using the following constructs:

1) If statement

To get started you first need to login into the lab computer. If you do not know how please ask me to show you. Once you are logged in, make sure you double click the “Map O:drive” icon. Then proceed to open up Microsoft Visual Basic .NET.

Step 1: Create a new console project named “Console_Application_Use_if”. Make sure to save your new project in your I101 (or B100) folder.

Step 2: Start by typing the following code in your console application:

```
Module Module1
Sub Main()
    Dim first, second As Integer
    Dim result As Integer

    Console.WriteLine("Please enter the 1st number: ")
    first = CInt(Console.ReadLine())

    Console.WriteLine("Please enter the 2nd number: ")
    second = CInt(Console.ReadLine())

    Console.WriteLine("\((\(0, (1)\))\), first, second")

    result = first Mod second
    Console.WriteLine("Result: \(0 \) \", result)

    Console.ReadLine() 'pause the program until the user hits the enter key
End Sub
End Module
```

Step 3: We would like to add some code to the above program, so that the program can tell us if the result of our program is an EVEN or ODD number.

Think about how you might be able to figure out if a number is ODD or EVEN? Do not go to the next page before you have spent some time thinking about this problem.
Step 4: Hopefully, you have come up with a good solution of your own. But if you have not, here is a solution: In order to find out if a number is ODD or EVEN, we can simply MOD that number by 2. If the result is a ZERO, then the number must be EVEN, if the result is 1, then the number must be ODD.

A simple IF statement will do the job for us.

```csharp
If ((result Mod 2) = 0) Then
    Console.WriteLine("EVEN")
Else
    Console.WriteLine("ODD")
End If
```

Step 4: Run the program a few times to see and verify the result.