**PRACTICAL # 01**

**OBJECT:**

C# Hello World Program

**THEORY:**

C# is a feature rich object oriented programming language based on .NET framework. It has innovative features and provides a highly usable, efficient way to write programs for the modern enterprise computing environment.

C# inherits a rich programming legacy. It is directly descended from two of the most successful languages: C and C++. It is also closely related to another Java. C# is Object-Oriented Programming language that supports Encapsulation, Inheritance and Polymorphism.

**Program:**

The program below is a simple hello world program in C#. The code starts with a class. Main method is where the execution of the code starts when the application is run. Console.WriteLine method is used to output on console. Console.ReadLine method reads input from user and returns it.

*using System;*

*class Example {*

*// C# program that prints Hello World, gets user input and prints it*

*public static void Main() {*

*//output Hello World*

*Console.WriteLine("Hello World");*

*//Get input from user*

*String input = Console.ReadLine();*

*//output the user input*

*Console.WriteLine(input);*

*}*

*}*

You can create a new C# Console Application Project in Visual Studio and just click the run button to compile and execute the application. Or you can use command line compiler to compile and run the application.

**Using csc.exe, the C# Command-Line Compiler**

To compile the program, execute the C# compiler, csc.exe, specifying the name of the source

file on the command line as:

C:\>csc Example.cs

To run the program after compilation, type its name on the command line:

[C:\](file:///C:/)>Example

**ACTIVITIES**

**Activity 1**

Install and setup Visual Studio IDE for C# development.

**Activity 2**

Write a program in C# that prints “My first C# program”. Compile and run this code to print output.

**REVIEW QUESTIONS**

1. Which method is used to take user input from console?
2. On which OS, C# can be compiled and run?
3. What is .NET framework?
4. From which method does a C# program starts execution?