

Task 11

TASK11: Create a Sample program to Demonstrate creation and usage of Dynamic Link Libraries in C#.

Filename1: Mymathlib.cs

```
using System;
namespace mymathlib
{
    public class method1
    {
        public static long Add(long x, long y)
        {
            return(x+y);
        }

        public static long Mul(long x, long y)
        {
            return(x*y);
        }
    }
}
```

Filename2:MyMathApp.cs

```
using System;
using mymathlib;

class MyMathApp
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Calling Method from mymathlib");

        if(args.Length !=2)
        {
            Console.WriteLine("Usage :MyMathApp <num1> <num2>");
            return;
        }

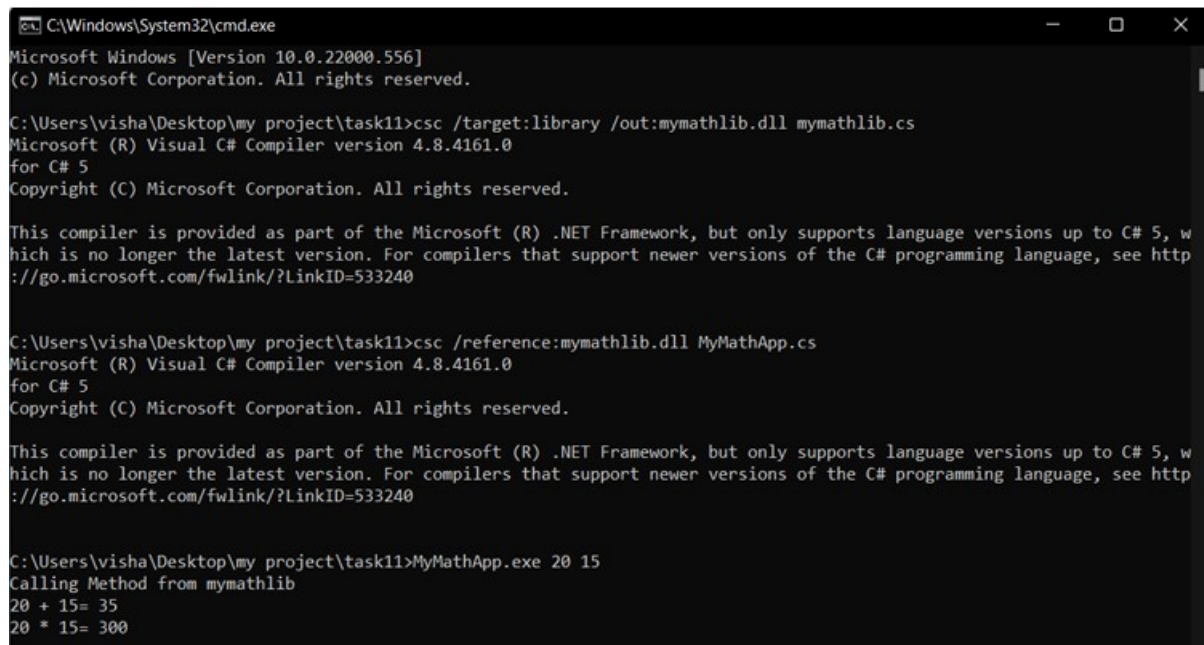
        long num1=long.Parse(args[0]);
        long num2=long.Parse(args[1]);

        long add=method1.Add(num1, num2);
        long mul=method1.Mul(num1, num2);

        Console.WriteLine( "{0} + {1}= {2}", num1,num2,add);
        Console.WriteLine( "{0} * {1}= {2}", num1,num2,mul);
    }
}
```

Command Prompt:

```
>csc /target:library /out:mymathlib.dll mymathlib.cs  
> csc /reference:mymathlib.dll MyMathApp.cs  
> MyMathApp.exe 20 15  
> Calling Method from mymathlib  
20 + 15= 35  
20 * 15= 300.
```



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.556]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Desktop\my project\task11>csc /target:library /out:mymathlib.dll mymathlib.cs
Microsoft (R) Visual C# Compiler version 4.8.4161.0
for C# 5
Copyright (C) Microsoft Corporation. All rights reserved.

This compiler is provided as part of the Microsoft (R) .NET Framework, but only supports language versions up to C# 5, which is no longer the latest version. For compilers that support newer versions of the C# programming language, see http://go.microsoft.com/fwlink/?LinkID=533240

C:\Users\visha\Desktop\my project\task11>csc /reference:mymathlib.dll MyMathApp.cs
Microsoft (R) Visual C# Compiler version 4.8.4161.0
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C:\Users\visha\Desktop\my project\task11>MyMathApp.exe 20 15
Calling Method from mymathlib
20 + 15= 35
20 * 15= 300
```