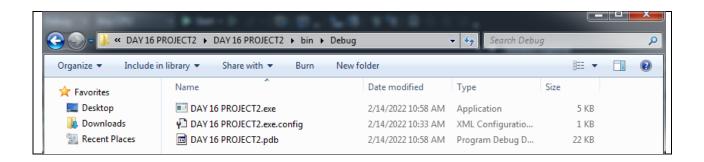
DAY 16 ASSIGNMENT BY MANOHAR ANDE 14TH FEB 2022

```
Q1.WACP to print Hello World
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY_16_project_1
  class Message
    public void PrintHello()
      Console.WriteLine("Hello World");
  internal class Program
    static void Main(string[] args)
      Message obj = new Message();
      obj.PrintHello();
      Console.ReadLine();
Output:
                                                                                         \Sigma S
D:\NBTRAININGS\DAY16 ASSIGNMENT\DAY 16 project 1\DAY 16 project 1\bin\Debug\DAY 16 pr...
 Hello World
```

Q2.WACP to read number from user and print factorial of it. Code: using System;

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DAY_16_PROJECT2
  class Factorial
    public void Readinput()
      int input;
       Console.WriteLine("Enter any nummber");
       input = Convert.ToInt32(Console.ReadLine());
       int fact = 1;
      for (int i = 1; i <= input; i++)
         fact = fact * i;
       Console.WriteLine(fact);
    }
  }
  internal class Program
    static void Main(string[] args)
       Factorial f = new Factorial();
       f.Readinput();
       Console.ReadLine();
  }
Ouput:
 D:\NBTRAININGS\DAY16 ASSIGNMENT\DAY 16 PROJECT2\DAY 16 PROJECT2\bin\Debug\DAY 16 ...
 Enter any nummber
 6
720
```

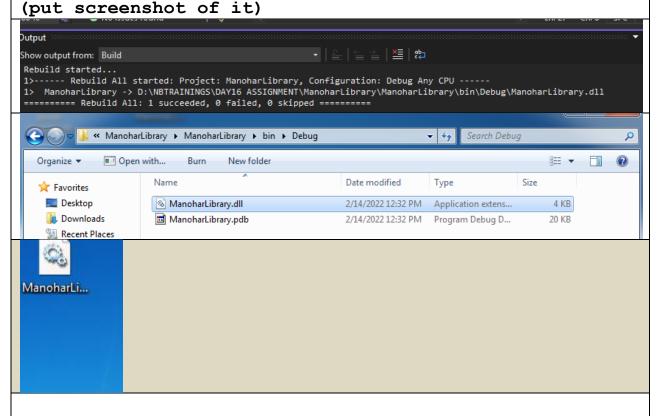
Q3.For the console application created in 2nd Task add screenshot of he .exe file location



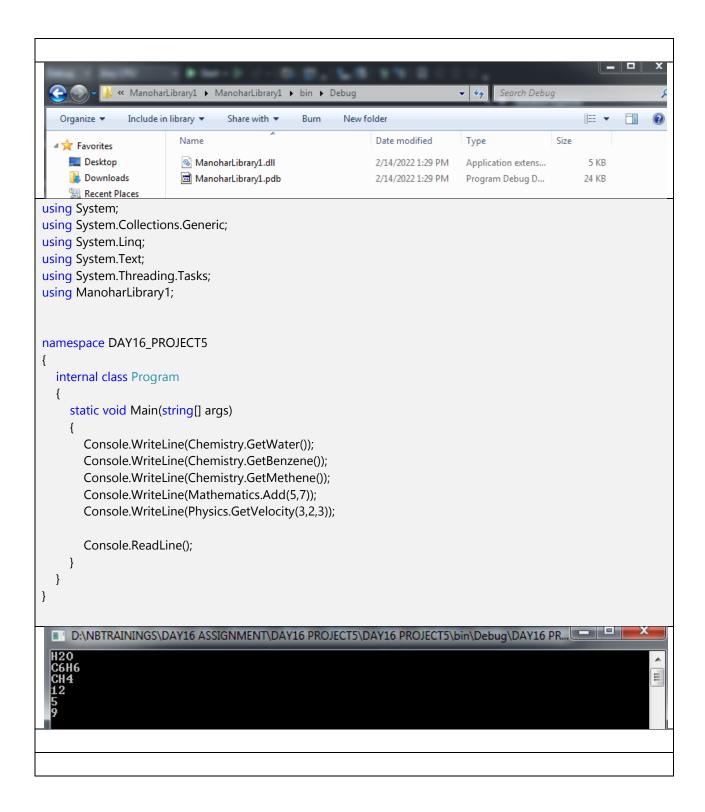
Q4.Create a class Library Project with name as <you name>Library

Create a class Mathematics as discussed in the class. [Add methods for reading number and finding factorial] Re-build the project and you will get a .dll file (put screenshot of it)

Copy the .dll file to desktop



- Q5. Create a class library with three classes in it:
 - a. Mathematics
 - b. Physics
 - c. Chemistry



Q6.WACP to print multable table of a number Code: using System; using System.Collections.Generic;

```
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day16Project4MultiplicationTable
  internal class Multiplication
     int input;
     public void ReadData()
       Console.WriteLine("Enter any Number");
       input = Convert.ToInt32(Console.ReadLine());
     public void GetMultiplication()
       for (int i = 1; i <= +10; i++)
          Console.WriteLine(input + "x" + i + "=" + input * i);
     static void Main(string[] args)
       Multiplication m = new Multiplication();
       m.ReadData();
       m.GetMultiplication();
       Console.ReadLine();
  }
```

Ouput:

```
Enter any Number

3
3x1=3
3x2=6
3x3=9
3x4=12
3x5=15
3x6=18
3x7=21
3x8=24
3x9=27
3x10=30
```

Q7. WACP to check if the given is number is Palindrome or not

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day16Project5Pallindrome
   class Palindrome
    int input;
    public void ReadData()
       Console.WriteLine("Enter any value");
       input = Convert.ToInt32(Console.ReadLine());
     public void CheckPalindrom()
       int sum = 0, rem = 0, temp = input;
       while (input > 0)
         rem = input % 10;
         sum = sum * 10 + rem;
         input = input / 10;
       }
       if (temp == sum)
         Console.WriteLine("{0} is a palindrome", temp);
       else
         Console.WriteLine("{0} Given value is Not a Palindrome", temp);
    }
  internal class Program
    static void Main(string[] args)
       Palindrome p = new Palindrome();
       p.ReadData();
       p.CheckPalindrom();
       Console.ReadLine();
```

```
Output:

D:\NBTRAININGS\DAY16 ASSIGNMENT\DAY 16 PALINDROME\DAY 16 PALINDROME\bin\Debug\...

Enter any value
232
232 is a palindrome
```

```
Q8. Create a solution "MyProject" (as discussed in class)
    Add three projects
     a. YourNameLibrary (and add any class with methods)
     b. PublicLibrary (add any class with methods)
     c. ClientApp (and here refer above two libraries)
ManoharLibrary:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace ManoharLibrary
  public static class Mathematics
    public static int Factorial(int n)
      int fact = 1;
      for (int i = 1; i < n; i + +)
        fact = fact * i;
      return fact;
    public static int Add(int a, int b)
      return a + b;
    public static int Mul(int a , int b)
      return a * b;
```

PublicLibrary:

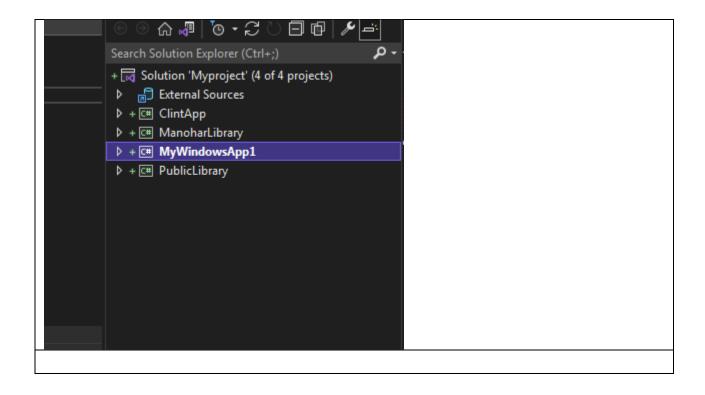
using System;

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace PublicLibrary
  public static class Physics
    public static int FinalVelocity(int u,int a, int t)
       return u + a * t;
Consoleapp:
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using ManoharLibrary;
using PublicLibrary;
namespace ClintApp
  internal class Program
    static void Main(string[] args)
       Console.WriteLine(Mathematics.Factorial(6));
       Console.WriteLine(Mathematics.Add(5, 5));
       Console.WriteLine(Mathematics.Mul(2, 3));
       Console.WriteLine(Physics.FinalVelocity(2,3,4));
       Console.ReadLine();
  }
Output:
                                                                                                  D:\NBTRAININGS\DAY16 ASSIGNMENT\Myproject\ClintApp\bin\Debug\ClintApp.exe
  120
10
 6
14
```

Q9.Add one more project (windows application)

Add some 3 or 4 screen shots just to prove that you have done this.

```
Code for windows application:
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using ManoharLibrary;
namespace MyWindowsApp1
  public partial class Form1: Form
    public Form1()
       InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
       int input = Convert.ToInt32(textBox1.Text);
       int factorial = Mathematics.Factorial(input);
       textBox2.Text = factorial.ToString();
  }
                               7
                                         GO
                      720
```



```
Q10. Research and write what is the use of partial classes
in C#
 WRITE EXAMPLE CODE AND PUT SCREEN SHOTS
CODE:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using ManoharLibrary;
using PublicLibrary;
namespace ClintApp
  internal class Program
    static void Main(string[] args)
      Console.WriteLine(Mathematics.Factorial(6));
      Console.WriteLine(Mathematics.Add(5, 5));
      Console.WriteLine(Mathematics.Mul(2, 3));
      Console.WriteLine(Physics.FinalVelocity(2,3,4));
      Console.WriteLine(Mathematics.GetDivision(6, 3));
      Console.ReadLine();
```