Day16 Assignment
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Question1:

WACP to print Hello World?

Code

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day16_Project1
     //Author :Narala Praveen
      //Purpose:Code for hello program.
   class Hello
        public static void PrintHello()
            Console.WriteLine("Hello World");
    internal class Program
        static void Main(string[] args)
           Hello.PrintHello();
            Console.ReadLine();
    }
}
```

Output:

C:\NBHtraining\Day16 Assignment\Day16

Hello World

Question2:

WACP to read a number from user and print Factorial of it?

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day16_Project2
{ //Author:Narala Praveen
    //Purpose:Code for Factorial
    class Maths
        public static int GetFactorial()
            int input; int fact = 1;
            Console.WriteLine("Enter input");
            input = Convert.ToInt32(Console.ReadLine());
            for(int i =1;i<=input;i++)</pre>
                fact=fact*i;
                return fact;
        }
    internal class Program
        static void Main(string[] args)
            Console.WriteLine(Maths.GetFactorial());
            Console.ReadLine();
    }
}
```

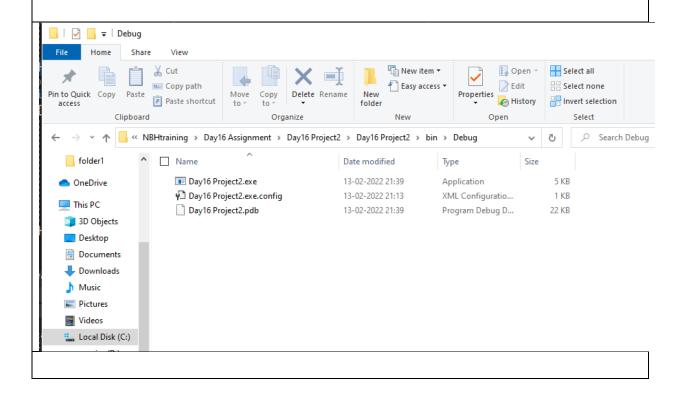
Output:

■ C:\NBHtraining\Day16 Assignment\Day16 Project2\Day16 Pro

```
Enter input
8
40320
```

Question3:

For the Console application created in 2nd task ,Add screen shot of the .exe file location?

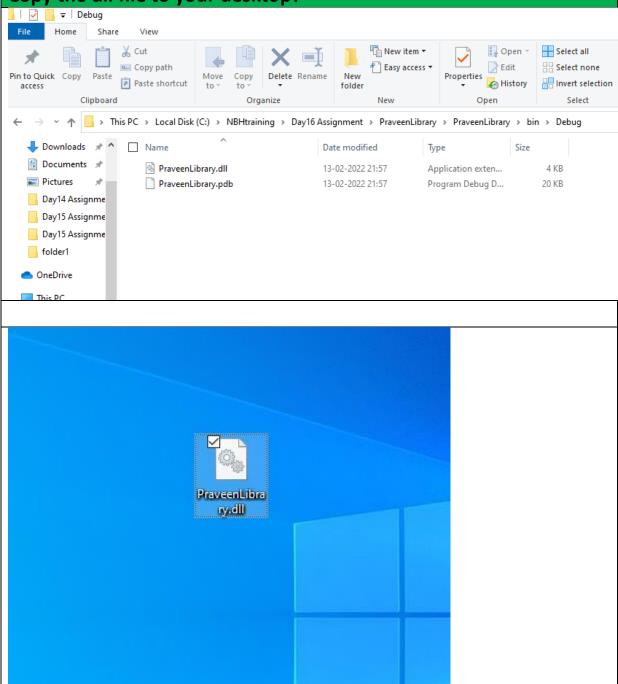




Create a class Library project with the name as <yourname>

Create a class Mathematics as discussed in the class [Add methods for reading number and finding factorial] Rebuild the project and you will get .dll file.

Copy the dll file to your desktop?



Question5:

Create a class library with three classes in it:

- a. Mathematics.
- b. Physics.
- c. Chemistry.

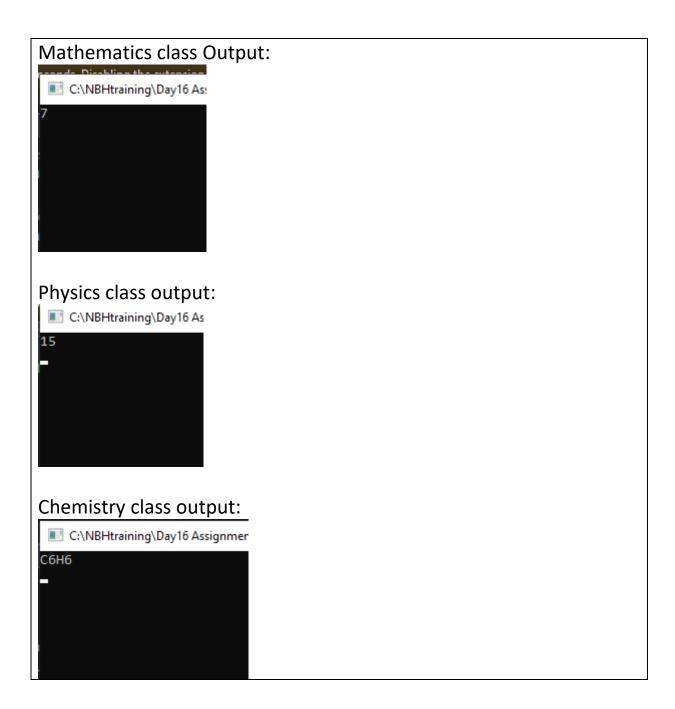
And add methods as discussed in the class Refer all the three classes in a console application?

```
Chemistry class:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace PraveenLibrary
{
  public class chemistry
    public string GetBenzene()
      return "C6H6";
    public string GetWater()
      return "H20";
    public string GetMethane()
      return "CH4";
```

```
Physics class:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace PraveenLibrary
  public class physics
    public static int FinalVelocity(int u,int a,int t)
      return u + a * t;
Mathematics class:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace PraveenLibrary
{
  public class Mathematics
    public static int GetFactorial()
      int input;
      int fact = 1;
      Console.WriteLine("Enter number");
      input=Convert.ToInt32(Console.ReadLine());
      for(int i =1;i<=input;i++)</pre>
```

```
fact=fact*i;
  return fact;
}
public static int Add(int a,int b)
{
  return a+b;
}
public static int Multiplication(int a,int b)
{
  return a * b;
}
public static int Division(int a, int b)
{
  return a / b;
}
}
```

```
Console app:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using PraveenLibrary;
namespace Day16project5
{ //Author:Narala Praveen
    //Purpose:To implement Library methods.
    internal class Program
        static void Main(string[] args)
             chemistry c = new chemistry();
             Console.WriteLine(c.GetBenzene());
             //Console.WriteLine(Mathematics.Add(2,5));
             //Console.WriteLine(physics.FinalVelocity(5, 2, 5));
             Console.ReadLine();
    }
}
```



Question6:

WACP to print multiplication table of a number?

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day16_Project6
{ //Author :Narala Praveen
    //Purpose:Code for Multiplication table for a given number.

class Multiplication
```

```
int n;
            public void ReadData()
                Console.WriteLine("Enter number");
                n = Convert.ToInt32(Console.ReadLine());
        public void GetMultiplication()
            for (int i = 1; i <= 10; i++)
                Console.WriteLine(n+"x"+i+"="+n*i);
            }
        }
    internal class Program
        static void Main(string[] args)
             Multiplication m = new Multiplication();
            m.ReadData();
            m.GetMultiplication();
            Console.ReadLine();
   }
}
           C:\NBHtraining\Day16 A
          Enter number
          5
          5x1=5
          5x2=10
          5x3=15
          5x4=20
          5x5=25
          5x6=30
          5x7=35
          5x8=40
          5x9=45
          5x10=50
Output:
```

Question7:

WACP to check if the given number is Palindrome or not?

```
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day16project7
{ //Author:Narala Praveen
    //Purpose:Code for Pallidrome
    class Pallindrome
        public int n;
        public int rem;
        public int rev;
        public int temp;
        public void ReadData()
            Console.WriteLine("Enter number");
            n=Convert.ToInt32(Console.ReadLine());
        public void GetPallindrome()
            temp = n;
            while(n >0)
                rem = n % 10;
                rev = (rev * 10) + rem;
                n = n / 10;
            if (temp==rev)
                Console.WriteLine("The number is pallindrome");
            else
                Console.WriteLine("The number is not Pallindrome");
        }
    internal class Program
        static void Main(string[] args)
            Pallindrome p=new Pallindrome();
            p.ReadData();
            p.GetPallindrome();
            Console.ReadLine();
   }
}
```

Output: C:\NBHtraining\Day16 Assignment\Day16projec Enter number 636 The number is pallindrome

Question8:

Create a Solution "My project" (as discussed in class)

Add three projects

- a. Your name Library.
- b. Public library.
- c. Client app(And here refer above two Libraries)

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace praveenLibrary
    public class Mathematics
        public static int Add( int a,int b)
            return a + b;
        public static int Difference(int a ,int b)
            return a - b;
        public static int Multiplication(int a ,int b)
            return (a * b);
    }
}
```

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace publiclibrary
    public class Physics
        public static int FinalVelocity(int u,int a,int t)
            return u + a * t;
    }
}
```

Client app:

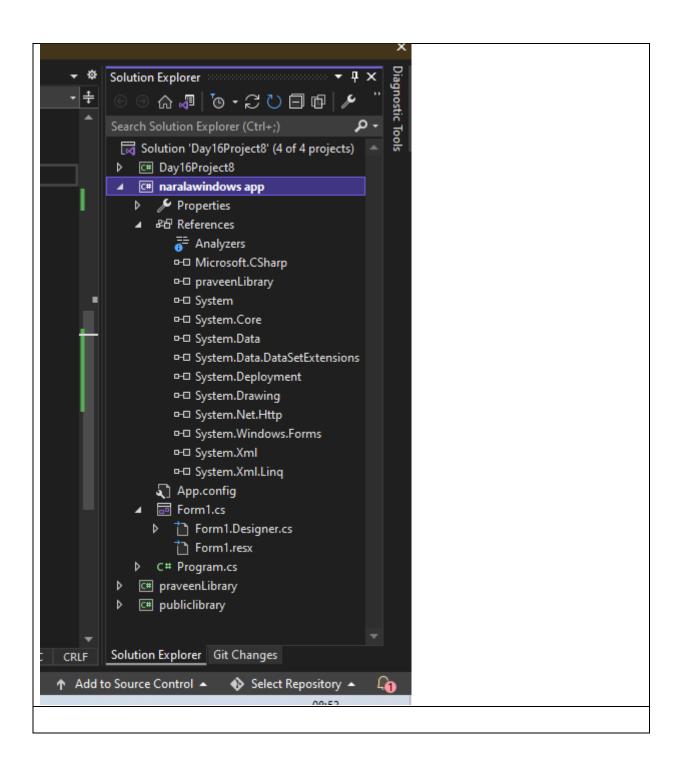
```
using System;
using System.Collections.Generic;
using System.Linq;
```

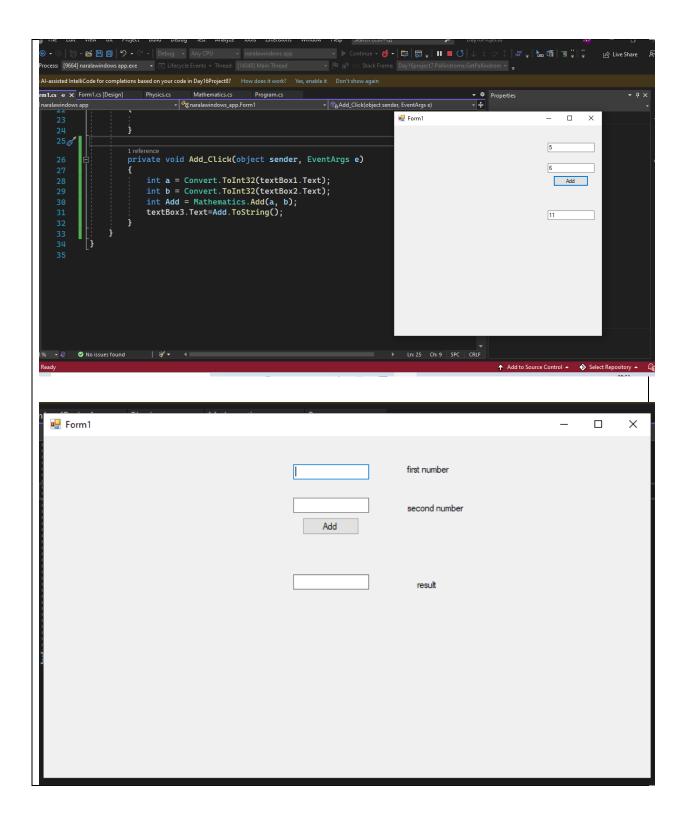
```
using System.Text;
using System.Threading.Tasks;
using publiclibrary;
using praveenLibrary;
namespace Clientapp
    internal class Program
        static void Main(string[] args)
            Console.WriteLine($"Final velocity{ Physics.FinalVelocity(6, 2,
6)}");
Console.WriteLine($"Multiplication{Mathematics.Multiplication(2,6)}");
            Console.ReadLine();
        }
    }
}
Output:
 C:\NBHtraining\Day16 Assignment\Day16
Final velocity18
Multiplication12
```

Question9:

Add one more project (Windows Application) Add some 3 or 4 screen shots .

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using praveenLibrary;
namespace naralawindows_app
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void label1_Click(object sender, EventArgs e)
        }
        private void Add_Click(object sender, EventArgs e)
            int a = Convert.ToInt32(textBox1.Text);
            int b = Convert.ToInt32(textBox2.Text);
            int Add = Mathematics.Add(a, b);
            textBox3.Text=Add.ToString();
    }
}
```





Question10:

Research and write the uses of Partial class?

WACP for example?

Add screenshots?

```
Code: using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace praveenLibrary
    public partial class Mathematics
        public static int Add( int a,int b)
            return a + b;
        public static int Difference(int a ,int b)
            return a - b;
        public static int Multiplication(int a ,int b)
            return (a * b);
        }
    }
}
Code2:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace praveenLibrary
    public partial class Mathematics
        public static int Divide(int a ,int b)
            return a / b;
    }
}
```

Output:

```
C:\NBHtraining\Day16 Assignment\Day16Projec

Final velocity
18
Multiplication
12
Division
4
```

Partial class:

```
Mathematic2.cs → X FormI.cs [Design] Physics.cs Mathematics Program.cs

| TormI.cs | Design | Physics.cs | Program.cs | P
```