|  |
| --- |
| DAY 17 Assignment  By  Nanam Vaishnavi  14- Feb -2022 |

|  |
| --- |
| 1. **Write a C# program to write Hello World** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // purpose : program to print Hello World in Object Oriented way.  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day16Project1  {  class Message  {  public string PrintHi()  {  return "Hello World";  }    }  internal class Program  {  static void Main(string[] args)  {  Message m = new Message();  Console.WriteLine(m.PrintHi());  Console.ReadLine();  }  }  } |
| **OUTPUT** |
|  |

|  |
| --- |
| 1. **Write a C# Program to read a number from user and print factorial of it. Hint : Think object oriented.** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace day\_16Project2  {  class Mathematics  {  int input, fact = 1;  public void ReadData()  {  Console.WriteLine("Enter Number: ");  input = Convert.ToInt32(Console.ReadLine());    }  public int GetFactorial()  {  for (int i = 1; i <= input; i++)  fact = fact \* i;  return fact;  }    }  internal class Program  {  static void Main(string[] args)  {  Mathematics m = new Mathematics();  m.ReadData();  Console.WriteLine(m.GetFactorial());  Console.ReadLine();  }  }  } |
| **OUTPUT** |
|  |

|  |
| --- |
| **For the console application created in 2nd task,**  **add screen shot of the .exe file location** |
| **OUTPUT** |
|  |

|  |
| --- |
| **4. Create a Class Library Project with name as**  **<YourName>Library ( Example : MeganadhLibrary )**   * **Create a class Mathematics as discussed in the class.**   **[ Add methods for reading number and finding factorial ]**   * **Re-Build the project and you will a .dll file.**   **( Put the screen shot of this )**   * **Copy the dll file to your desktop**   **(put the screen shot of this )** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace VaishnaviLibrary  {  internal class Mathematics  {  int input, fact = 1;  /// <summary>  /// Read Data  /// </summary>  public void ReadData()  {  Console.WriteLine("Enter Number: ");  input = Convert.ToInt32(Console.ReadLine());  }  /// <summary>  /// GetFactorial  /// </summary>  /// <returns></returns>  public int GetFactorial()  {  for (int i = 1; i <= input; i++)  fact = fact \* i;  return fact;  }  }  } |
| **OUTPUT** |
|  |

|  |
| --- |
| **5. 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.** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using VaishnaviLibrary;  namespace day16Project3  {  internal class Program  {  static void Main(string[] args)  {  Mathematics m = new Mathematics();  m.ReadData();  Console.WriteLine(m.GetFactorial());  Console.WriteLine("==================================");  Physics p = new Physics();  Console.WriteLine(p.FinalVelocity(5,3,1));  Console.WriteLine("==================================");  Chemistry c = new Chemistry();  Console.WriteLine(c.Benzene());  Console.WriteLine(c.Water());  Console.WriteLine("==================================");  Console.ReadLine();    Console.ReadLine();  }  }  } |
|  |