Name: Sarvesh Sawant Date: 12/8/23
Subject: ASP.NET Class:SYIT

Practical1: Working with basic C# and ASP.NET

a.create simple application to perform following operations

1 display hello world this is my first c# program

2. create an application that obtains firstname and lastname from the user and display the output as “hello firstname hope you don’t mind us addressing you as last name”

Code:

```
using System;
namespace Practical1a
{
   class HelloName
   {
      static void Main(string[] args)
      {
         Console.WriteLine("eNTER your first name:");
         string firstName = Console.ReadLine();
         Console.WriteLine("Enter your last name:");
         string lastName = Console.ReadLine();
         Console.WriteLine("hELLLO" + firstName + "  " + lastName);
      }
   }
}
```

Output:

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3. create an application that obtains two int values from the user and performs and displays the basic arithmetic operations on it

```
  internal class Arithmetic
  {
     static void Main(string[] args)
     {
        Console.WriteLine("Enter first number:");
        int firstNum = Int32.Parse(Console.ReadLine());
        Console.WriteLine("Enter second number:");
        int secondNum = Int32.Parse(Console.ReadLine());
        Console.WriteLine(firstNum + "+" + secondNum + "=" + (firstNum + secondNum));
        Console.WriteLine(firstNum + "-" + secondNum + "=" + (firstNum - secondNum));
        Console.WriteLine(firstNum + "*" + secondNum + "=" + firstNum * secondNum);
        Console.WriteLine(firstNum + "/" + secondNum + "=" + firstNum / secondNum);
        Console.WriteLine(firstNum + "%" + secondNum + "=" + firstNum % secondNum);
     }
  }
}
```

Output:

```
Enter first number:
5
Enter second number:
5
5+5=10
5-5=0
5*5=25
5/5=1
5%5=0
```

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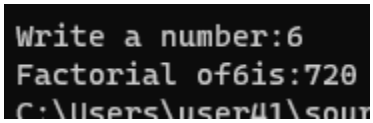
4. finding factorial value

```
namespace Practical1a
{
   internal class Factorial
   {
      static void Main(string[] args)
      {
         int i, fact = 1, number;
         Console.Write("Write a number:");
         number = int.Parse(Console.ReadLine());
         for (i = 1; i <= number; i++)
         {
            fact = fact * i;
         }
         Console.Write("Factorial of" + number + "is:" + fact);
      }
   }
}
```

Output:



5. generate fibonnaci series

6. test for prime number

7. test for vowel

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b. create an application to demonstrate string and array operations

Method
Copy(Array,Array,Int32)
IndexOf(Array,Object)
Reverse(Array)
Sort(Array)

Code:

```
namespace Practical1a
{
   internal class ArrayOp
   {
      static void Main(string[] args)
      {
         int[] arr = new int[6] { 5, 8, 9, 25, 0, 7 };
         int[] arr2 = new int[6];

         Console.WriteLine("length of first array : " + arr.Length);
         Array.Sort(arr);
         Console.Write("first array elements : ");
         PrintArray(arr);

         Console.WriteLine("\n Index position of 25 is " + Array.IndexOf(arr, 25));

         Array.Copy(arr, arr2, arr.Length);
         Console.Write("Second array elements ");
         PrintArray(arr2);

         Array.Reverse(arr);
         Console.Write("\n First array elements in reverse order : ");
         PrintArray(arr);
      }
      static void PrintArray(int[] arr)
      {
         foreach (Object elem in arr)
         {
            Console.Write(elem + " ");

         }
      }
   }
}
```

Output:

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```
length of first array : 6
first array elements : 0 5 7 8 9 25
 Index position of 25 is 5
Second array elements 0 5 7 8 9 25
 First array elements in reverse order : 25 9 8 7 5 0
```

c create an application that receives the following information from a set of students