Harmonic Number

```
namespace HarmoniFunction
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int i, n;
            double s = 0.0;

            Console.Write("\n\n");
            Console.Write("Calculate the harmonic series and their
sum:\n");
            Console.Write("-----------------------------------------------
");
            Console.Write("\n\n");

            Console.Write("Input the number of terms : ");
            n = Convert.ToInt32(Console.ReadLine());
            Console.Write("\n\n");
            for (i = 1; i <= n; i++)
            {
                Console.Write("1/{0} + ", i);
                s += 1 / (float)i;
            }
            Console.Write("\nSum of Series upto {0} terms : {1} \n", n,
s);
        }
    }
}
```

==========

Factors

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

namespace Program
{
    class Program
    {
        static void Main(string[] args)
{
int num, x;
            Console.WriteLine("Enter the Number ");
            num = int.Parse(Console.ReadLine());
            Console.WriteLine("The Factors are : ");
            for (x = 1; x <= num; x++)
            {
                if (num % x == 0)
                {
                    Console.WriteLine(x);
                }
}
Console.ReadLine();
}
```

```
}
}
================================================================
Quotient and Remainder
--------------------------------
namespace Quotient_and_Remainder
{
    internal class Program
    {
        static void Main(string[] args)
        {

            int dividend = 50, divisor = 8;

            int quotient = dividend / divisor;
            int remainder = dividend % divisor;

            Console.WriteLine("Dividend:{0} Divisor:{1}", dividend,
divisor);
            Console.WriteLine("Quotient = " + quotient);
            Console.WriteLine("Remainder = " + remainder);
            Console.ReadLine();
        }
    }
}
====================================
Swap Two Numbers
-------------------------
namespace SwappingNumbers
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int number1, number2, temp;
            Console.Write("\nInput the First Number : ");
            number1 = int.Parse(Console.ReadLine());
            Console.Write("\nInput the Second Number : ");
            number2 = int.Parse(Console.ReadLine());
            temp = number1;
            number1 = number2;
            number2 = temp;
            Console.Write("\nAfter Swapping : ");
            Console.Write("\nFirst Number : " + number1);
            Console.Write("\nSecond Number : " + number2);
            Console.Read();
        }
    }
}
=====================================================
Even or Odd
------------------------------
namespace EvenOddFunction
{
    internal class Program
    {
        static void Main(string[] args)
        {
```

```
            int n;   // declare variable

        //take input
        Console.WriteLine("Enter the number = ");
            n = Convert.ToInt32(Console.ReadLine());

            //check if n is even or odd
            if (n % 2 == 0)
                Console.WriteLine(n + " is even");
            else
                Console.WriteLine(n + " is odd");

            // wait for user to press any key
            Console.ReadLine();
        }
    }
}
```

```
==========================================================================
Vowel or Consonant
---------------------------------
namespace VowelsConsonants
{
    internal class Program
    {
        static void Main(string[] args)
        {
            char ch;
            Console.Write("\n\n");
            Console.Write("Vowel or Consonant checker tool\n");
            Console.Write("-----------------------------------------------
-------");
            Console.Write("\n\n");

            Console.Write("Please Enter an Alphabet (A-Z or a-z) : ");
            ch = Convert.ToChar(Console.ReadLine().ToLower());
            int i = ch;
            if (i >= 48 && i <= 57)
            {
                Console.Write("Err! Please enter an alphabet not a
number.");
            }
            else
            {
                switch (ch)
                {
                    case 'a':
                        Console.WriteLine("Entered alphabet is vowel");
                        break;
                    case 'i':
                        Console.WriteLine("Entered alphabet is vowel");
                        break;
                    case 'o':
                        Console.WriteLine("Entered alphabet is vowel");
                        break;
                    case 'u':
                        Console.WriteLine("Entered alphabet is vowel");
                        break;
```

```
                    case 'e':
                        Console.WriteLine("Entered alphabet is vowel");
                        break;
                    default:
                        Console.WriteLine("Entered alphabet is a
Consonant");
                        break;
                }
            }
            Console.ReadLine();
        }
    }
}
==============================================
to Find the Largest Among Three Numbers
----------------------------------------
namespace LargestofThreenum
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int num1, num2, num3;
            Console.Write("\n\n");
            Console.Write("Find the largest of three numbers:\n");
            Console.Write("-----------------------------------");
            Console.Write("\n\n");

            Console.Write("Input the 1st number :");
            num1 = Convert.ToInt32(Console.ReadLine());
            Console.Write("Input the  2nd number :");
            num2 = Convert.ToInt32(Console.ReadLine());
            Console.Write("Input the 3rd  number :");
            num3 = Convert.ToInt32(Console.ReadLine());

            if (num1 > num2)
            {
                if (num1 > num3)
                {
                    Console.Write("The 1st Number is the greatest among
three. \n\n");
                }
                else
                {
                    Console.Write("The 3rd Number is the greatest among
three. \n\n");
                }
            }
            else if (num2 > num3)
                Console.Write("The 2nd Number is the greatest among three
\n\n");
            else
                Console.Write("The 3rd Number is the greatest among three
\n\n");
        }
    }
}
============================
```