Faculty of Technology

University of Sri Jayewardenepura

Discussion Topics

Fundamentals of Multimedia

ICT 2342

Lecturer

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1

```
namespace Lab2
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\t **1 to 10 using For Loop** \n");
            for(int i = 1; i <= 10; i++)
            {
                Console.WriteLine(i);
            }
        }
    }
}
```

2.

```
namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter Lower Limit of Prime Num  :-");
            int LL = Convert.ToInt32(Console.ReadLine());
            Console.Write("\nEnter Uper Limit of Prime Num :- ");
            int UL = Convert.ToInt32(Console.ReadLine());
            Console.Write("\nPrime Numbers between {0} and {1} are
\n\n",LL,UL);

            int  counter, i, n;
            for (i = LL; i < UL; i++)
            {
                counter = 0;

                for (n = 1; n <= i; n++)
                {
                    if (i % n == 0)
                    {
                        counter++;
                    }
                }
                if(counter==2)
                    Console.WriteLine("\t{0}",i);

            }
        }
    }
```

```
}
```

3.

```
namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //Sum of N numbers = Sn=n(n+1)/2
            Console.WriteLine("\n\t** Sum of N Numbers **\n");
            Console.Write("N Numbers :- ");
            int n = Convert.ToInt32(Console.ReadLine());
            int Sn = n * (n + 1) / 2;
            Console.WriteLine("** Sum of first {0} numbers is {1}",n,Sn);
        }
    }
}
```

4.

```
using System.ComponentModel.DataAnnotations;

namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t** Total Number of Letters in the Text
**\n");
            Console.Write("Enter the Text :- ");
            String text = Console.ReadLine();
            Console.WriteLine("** Number of letters in the text is {0} :-
",text.Length);
        }
    }
}
```

5.

```
namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t** Find the Leap Year **\n");
            Console.Write("Enter a year :- ");
            int year = Convert.ToInt32(Console.ReadLine());
            if (year % 4 == 0)
            {
                Console.WriteLine("\n**   {0} is a Leap Year",year);
            }
            else
            {
                Console.WriteLine("\n   {0} is not a Leap Year", year);
            }
        }
    }
}
```

6.

```
namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t** Find the Factorial **\n");
            Console.Write("Enter a Number :- ");
            int num= Convert.ToInt32(Console.ReadLine());
            int factorial=1;
            for(int i = 1; i <= num; i++)
            {
                factorial *= i;
            }
            Console.WriteLine("Factorial of {0} is {1} ", num, factorial);
        }
    }
}
```

7.

```
using System.ComponentModel.DataAnnotations;

namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t** Multiplication Table of 14 **\n");
            for (int i = 1; i <= 12; i++)
            {
                Console.WriteLine("14  *  {0}  =   {1}", i, i * 14);

            }

        }
    }
}
```

8.

```
using System.ComponentModel.DataAnnotations;

namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t** Find Palindroms **\n");
            Console.Write("Enter a Word :- ");
            String str = Console.ReadLine();
            int ind = str.Length-1;
            int x = 0;

            int truev = 0;
            while (ind > 0)
            {
                if(str[x++] != str[ind--])
                {
                     truev = 1;
                }



            }
            if (truev == 0)
            {
                Console.WriteLine("\n\t**{0} is a Palindrom ",str);

            }
            else
            {
                Console.WriteLine("\n\t**{0} is not a  Palindrom");

            }

        }
    }
}
```

9.

```
using System.ComponentModel.DataAnnotations;

namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int n1 = 0, n2 = 1;
            Console.Write("\t ** Fibonacci Series **\n");
            Console.Write("\n{0} , {1} , ",n1, n2);
            for (int i = 0; i < 20; i++)
            {
                int nextnum = n1 + n2;
                Console.Write("{0}, ",nextnum);
                n1 = n2;
                n2 = nextnum;

            }

        }
    }
}
```

10.

```
using System.ComponentModel.DataAnnotations;
using System.Reflection.Metadata;

namespace lab2b
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //int counter = 0;
            int[] numbers = new int[5];
            int sum = 0, avg = 0, low = 0, high = 0;
            for (int i = 0; i < 5; i++)
            {
                Console.Write("Number {0}: ",i+1);
                numbers[i] = Convert.ToInt32(Console.ReadLine());
                sum += numbers[i];
            }
            avg = sum / 5;
            for (int i = 0; i < 5; i++)
            {
                if (numbers[i] < avg)
                {
                    low++;
                }
                if (numbers[i]>avg)
                {
                    high++;
                }
            }

            Console.WriteLine("The average is : {0}", avg);
            Console.WriteLine("The numbers above the average are: {0}", high);
            Console.WriteLine("The numbers below the average are: {0}", low);
            Console.ReadKey();

        }
    }
}
```