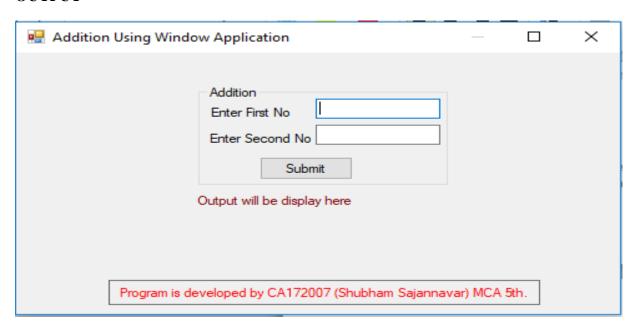
1) Program to display the first 10 natural numbers and their sum using console application.

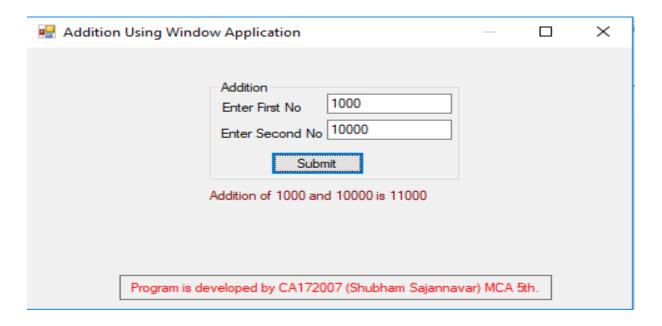
```
using System;
   using System.Collections.Generic;
   using System.Linq;
   using System.Text;
   namespace Natural_Number
     class Program
       static void Main(string[] args)
       {
             int add=0;
             Console.WriteLine("First 10 Natural Numbers");
             Console.WriteLine("-----");
             for(int i=1; i<=10; i++){
                   Console.WriteLine(+i);
                    add = add + i;
                   if (i == 10) {
                          Console.WriteLine("-----");
                          Console.WriteLine("Addition of above numbers are: "+add);
             }
          Console.WriteLine("Program is developed by CA172007 (Shubham Sajannavar)
MCA 5th.");
          Console.ReadKey();
        }
     }
   }
```

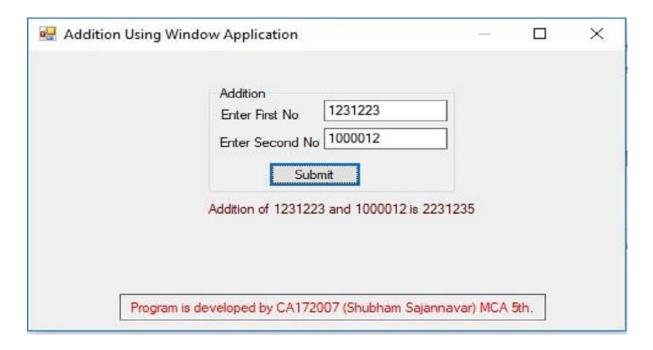
2) Program to display the addition using the windows application.

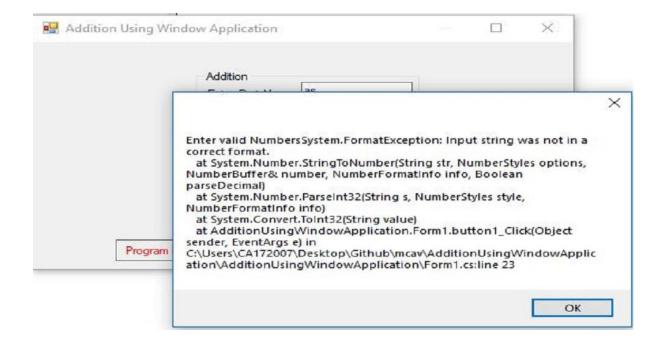
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Windows. Forms;
namespace AdditionUsingWindowApplication
  public partial class Form1 : Form
    public Form1()
    {
       InitializeComponent();
     }
    private void button1_Click(object sender, EventArgs e)
    {
       try
         int a = Convert.ToInt32(textBox1.Text);
         int b = Convert.ToInt32(textBox2.Text);
         int c = a + b;
         label3.Text = ("Addition of " + a + " and " + b + " is " + c);
       }
       catch (Exception ex) {
         MessageBox.Show("Enter valid Numbers"+ex);
         label3.Text=("Enter valid Numbers");
       }
     }
```

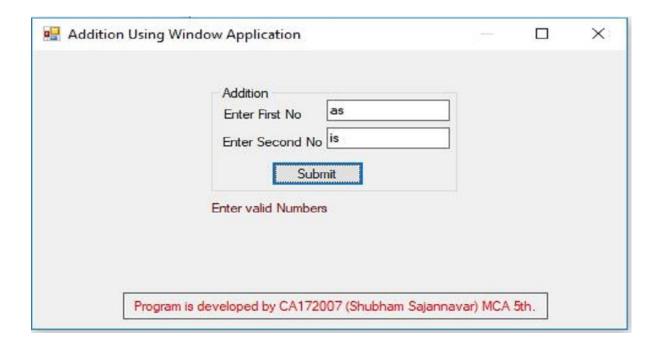
```
private void Form1_Load(object sender, EventArgs e)
{
    label3.ForeColor = Color.Maroon;
    label4.ForeColor = Color.Red;
    label3.Text = "Output will be display here";
    label4.Text = "Program is developed by CA172007 \n(Shubham Sajannavar)
MCA 5th.";
    }
}
```











3) Program to display the addition, subtraction, multiplication and division of two number using console applications.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ArthmaticOperation
  class Program
    static void Main(string[] args)
       Console.WriteLine("This Program is developed by Shubham Sajannavar");
       Console. WriteLine ("Roll No: CA172007, Rani Channamma University,
Belgavi");
       int add, sub, mul,num1,num2;
       float div;
       try
       {
         Console.WriteLine("Enter 1st Number: ");
         num1 = Convert.ToInt32(Console.ReadLine());
         Console.WriteLine("Enter 2nd Number: ");
         num2 = Convert.ToInt32(Console.ReadLine());
         add = num1 + num2;
         sub = num1 - num2;
         mul = num1 * num2;
         div = num1 / num2;
         Console.WriteLine("Addition of " +num1 + " and " + num2 + " = " + add);
         Console.WriteLine("\nSubstration of " + num1 + " and " + num2 + " = " + sub);
         Console.WriteLine("Multiplication of " +num1+ " and " + num2 + " = " + mul);
         Console.WriteLine("\nDivision of \t\t" + num1 + " and " + num2 + " = " + div);
       }
       catch (Exception ex) {
         Console.WriteLine("Enter valid Number");
       }
         Console.ReadKey();
     }
}
```

```
II file:///C:/Users/CA172007/Desktop/Github/mcav/ArthmaticOperation/ArthmaticOperation/bin/Debug/ArthmaticOperation.EXE

This Program is developed by Shubham Sajannavar

Roll No : CA172007, Rani Channamma University, Belgavi

Enter 1st Number :
```

```
file:///C:/Users/CA172007/Desktop/Github/mcav/ArthmaticOperation/ArthmaticOperation/bin/Debug/ArthmaticOperation.EXE

This Program is developed by Shubham Sajannavar
Roll No: CA172007, Rani Channamma University, Belgavi

Enter 1st Number:

10
Enter 2nd Number:
20
Addition of 10 and 20 = 30

Substration of 10 and 20 = -10

Multiplication of 10 and 20 = 200

Division of 10 and 20 = 0
```

```
file:///C:/Users/CA172007/Desktop/Github/mcav/ArthmaticOperation/ArthmaticOperation/bin/Debug/ArthmaticOperation.EXE

This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi

Enter 1st Number :

125452
Enter 2nd Number :

12152

Addition of 125452 and 12152 = 137604

Substration of 125452 and 12152 = 113300

Multiplication of 125452 and 12152 = 1524492704

Division of 125452 and 12152 = 10
```

```
File:///C:/Users/CA172007/Desktop/Github/mcav/ArthmaticOperation/ArthmaticOperation/bin/Debug/ArthmaticOperation.EXE

This Program is developed by Shubham Sajannavar

Roll No : CA172007, Rani Channamma University, Belgavi

Enter 1st Number :

sa

Enter valid Number
```

```
This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi

Enter 1st Number :
1520
Enter 2nd Number :
6565
Addition of 1520 and 6565 = 8085

Substration of 1520 and 6565 = 9978800

Division of 1520 and 6565 = 0
```

4) Check whether the Entered Year is a Leap or Not.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace LeapYear
  class Program
    static void Main(string[] args)
      Console.WriteLine("-----");
      Console.WriteLine("This Program is to check for the leap year");
      Console.WriteLine("Developed by Shubham Sajannavar Roll No: CA172007,");
   Console.WriteLine("Rani Channamma University, Belgavi");
      Console.WriteLine("-----");
      try {
        Console.Write("Enter Year to check: ");
        long year = Convert.ToInt64(Console.ReadLine());
        Console.WriteLine("\n----");
        if (year \% 400 == 0) {
          Console.WriteLine("\t{0} is a Leap Year", year);
        }
        else if (year \% 100 == 0) {
          Console.WriteLine("\t{0} is not a Leap Year", year);
        }
        else if (year \% 4 == 0)
          Console.WriteLine("\t{0} is a Leap Year", year);
        }
        else {
          Console.WriteLine("\t{0} is not a Leap Year", year);
        }
      }
      catch(Exception ex) {
        Console.WriteLine("Enter valid year");
      }
      Console.WriteLine("-----");
      Console.ReadKey();
    }
  }
}
```

```
file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE
This Program is to check wether the entered year is leap or not developed by Shubham Sajannavar Roll No : CA172007,
Rani Channamma University, Belgavi
Enter Year to check :
```

```
This Program is to check wether the entered year is leap or not developed by Shubham Sajannavar Roll No : CA172007, Rani Channamma University, Belgavi

Enter Year to check : 2016

2016 is a Leap Year
```

file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE This Program is to check wether the entered year is leap or not developed by Shubham Sajannavar Roll No : CA172007, Rani Channamma University, Belgavi	
Enter Year to check : asdf	
Enter valid year	

III file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE	
This Program is to check wether the entered year is leap or not developed by Shubham Sajannavar Roll No : CA172007, Rani Channamma University, Belgavi	
Enter Year to check : asdf	
Enter valid year	

file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE

This Program is to check wether the entered year is leap or not developed by Shubham Sajannavar Roll No : CA172007, Rani Channamma University, Belgavi

Enter Year to check : 2020

2020 is a Leap Year

5) Program to illustrate the use of different properties in C#.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
namespace ArthmaticOperation
  class Program
    static void Main(string[] args)
      Console.WriteLine("-----");
      Console.WriteLine("This Program is developed by Shubham Sajannavar");
      Console.WriteLine("Roll No: CA172007, Rani Channamma University");
      Console.WriteLine("-----"):
      int add, sub, mul, num1, num2;
      float div;
      try
      {
        Console.WriteLine("Enter 1st Number: ");
        num1 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter 2nd Number: ");
        num2 = Convert.ToInt32(Console.ReadLine());
        add = num1 + num2;
        sub = num1 - num2;
        mul = num1 * num2;
        div = num1 / num2;
        Console.WriteLine("-----"):
        Console.WriteLine("Addition of \t\" + num1 + " and " + num2 + " = " + add);
        Console.WriteLine("\nSubstration of " + num1 + " and " + num2 + " = " + sub);
        Console.WriteLine("Multiplication of " +num1+ " and " + num2 + " = " + mul);
        Console.WriteLine("\nDivision of \t\t" + num1 + " and " + num2 + " = " + div);
        Console.WriteLine("-----");
      }
      catch (Exception ex) {
        Console.WriteLine("Enter valid Number");
      }
        Console.ReadKey();
    }
  }
}
```