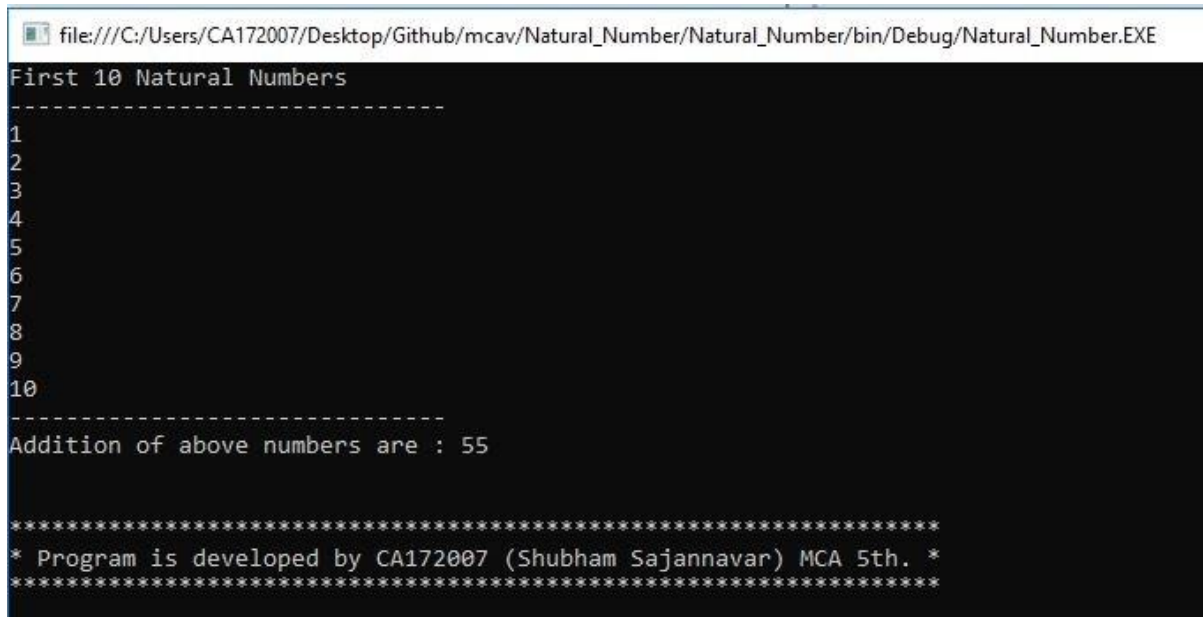


1) Program to display the first 10 natural numbers and their sum using console application.

```
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();
        }
    }
}
```

OUTPUT

```
file:///C:/Users/CA172007/Desktop/Github/mcav/Natural_Number/Natural_Number/bin/Debug/Natural_Number.EXE
First 10 Natural Numbers
-----
1
2
3
4
5
6
7
8
9
10
-----
Addition of above numbers are : 55

*****
* Program is developed by CA172007 (Shubham Sajannavar) MCA 5th. *
*****
```

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.Linq;
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.";
}
}
}
```

OUTPUT

Addition Using Window Application

Addition

Enter First No

Enter Second No

Submit

Output will be display here

Program is developed by CA172007 (Shubham Sajannavar) MCA 5th.

Addition Using Window Application

Addition

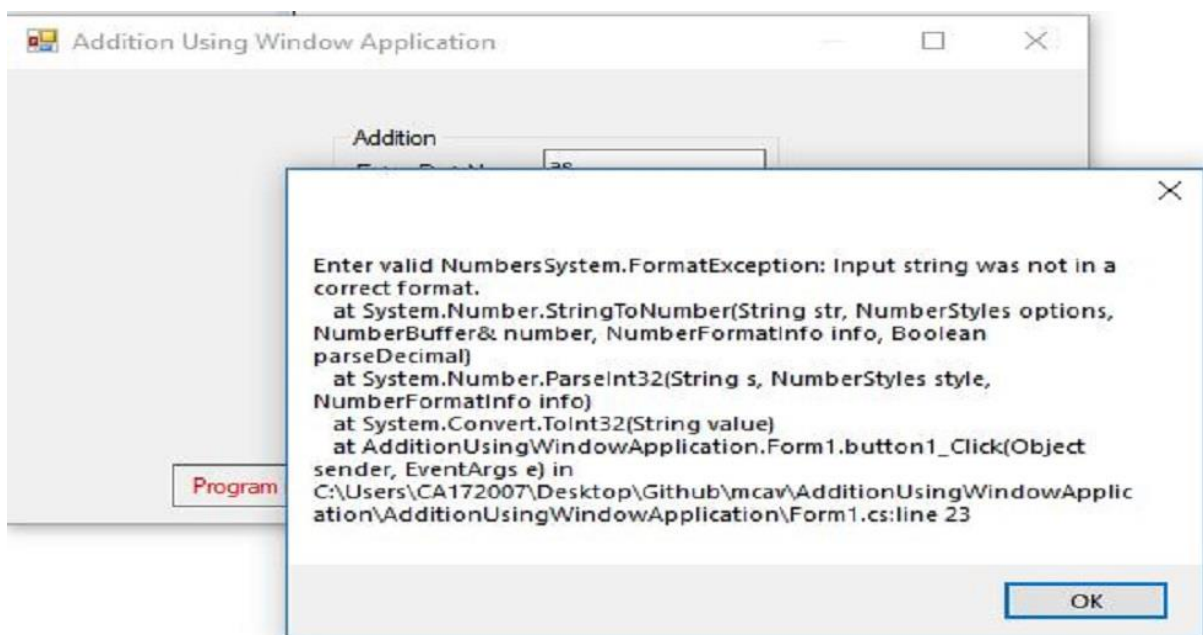
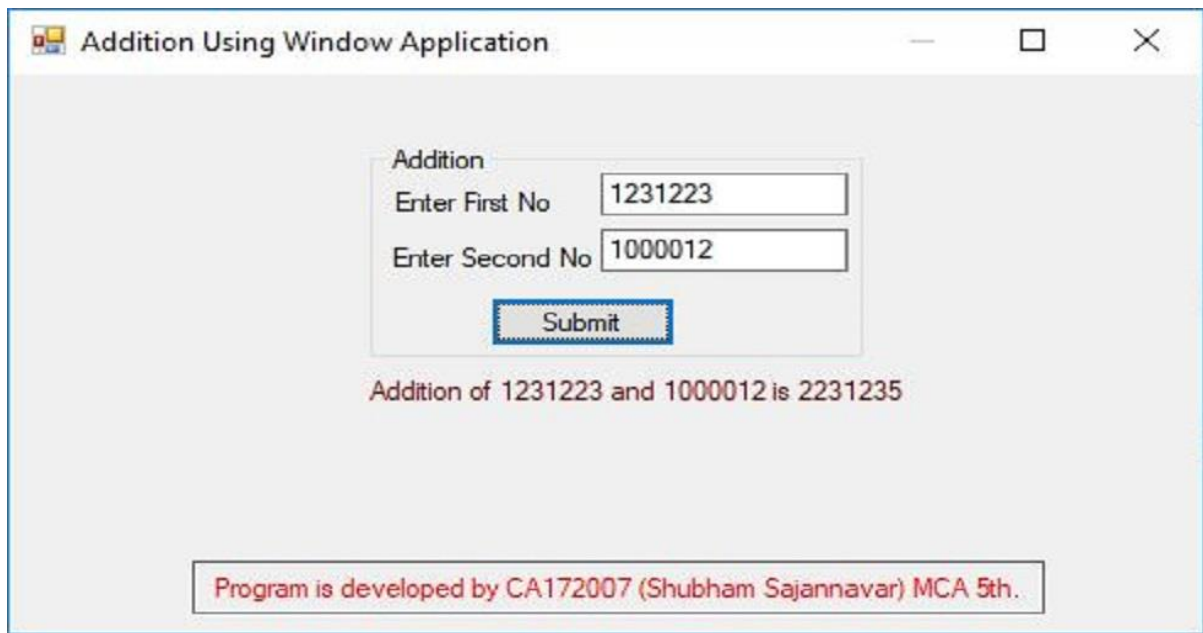
Enter First No

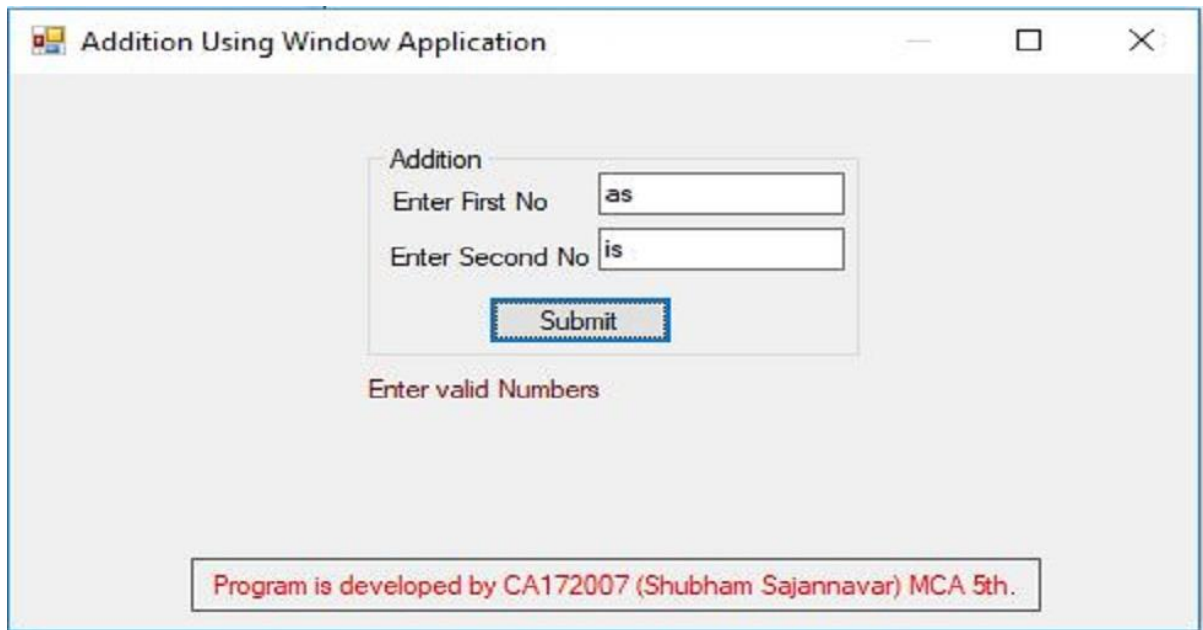
Enter Second No

Submit

Addition of 1000 and 10000 is 11000

Program is developed by CA172007 (Shubham Sajannavar) MCA 5th.





Addition Using Window Application

Addition

Enter First No

Enter Second No

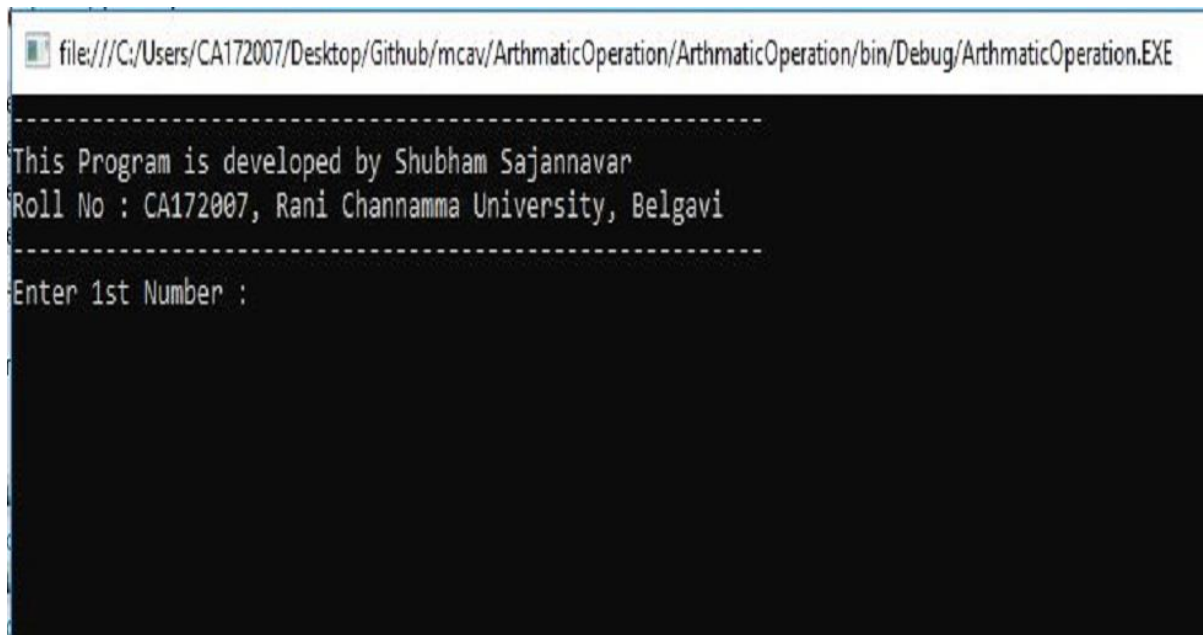
Enter valid Numbers

Program is developed by CA172007 (Shubham Sajannavar) MCA 5th.

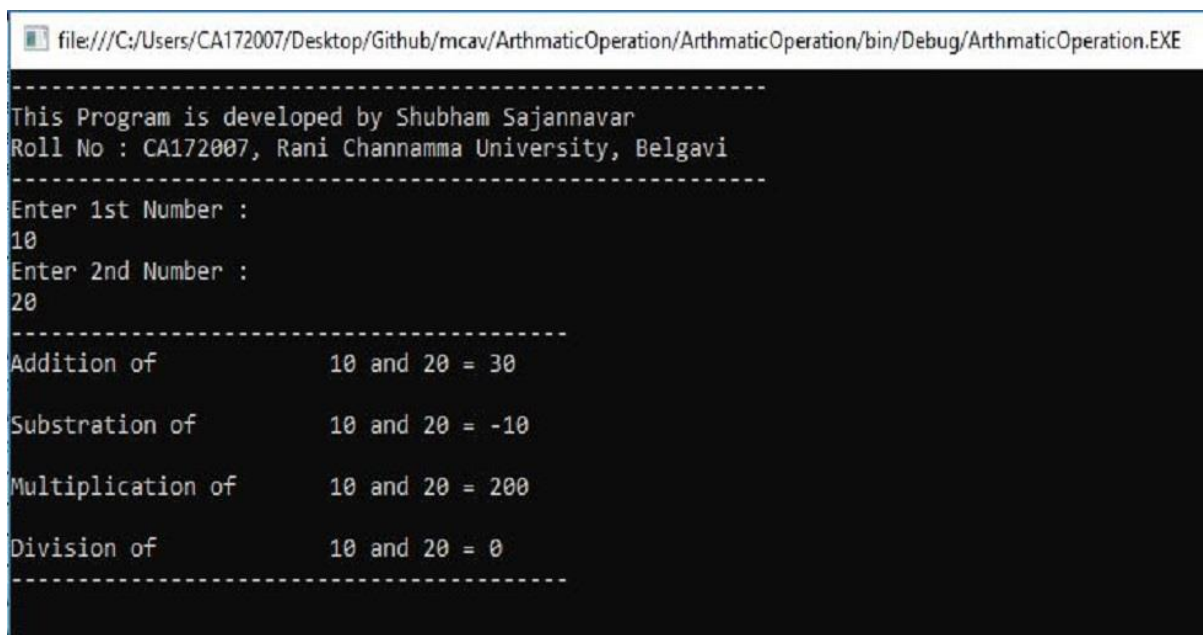
3) Program to display the addition, subtraction, multiplication and division of two number using console applications.

```
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("\nSubstraction 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();
        }
    }
}
```


OUTPUT

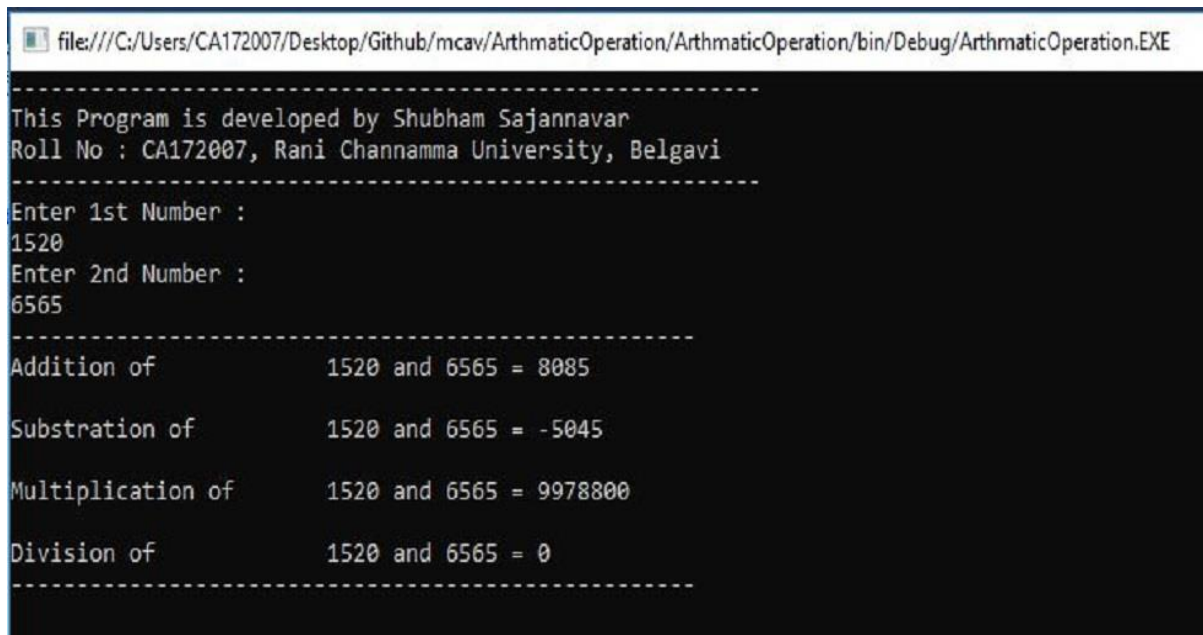
```
file:///C:/Users/CA172007/Desktop/Github/mcav/ArithmeticOperation/ArithmeticOperation/bin/Debug/ArithmeticOperation.EXE
-----
This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi
-----
Enter 1st Number :
```



```
file:///C:/Users/CA172007/Desktop/Github/mcav/ArithmeticOperation/ArithmeticOperation/bin/Debug/ArithmeticOperation.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
Substraction 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
Substraction 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
```

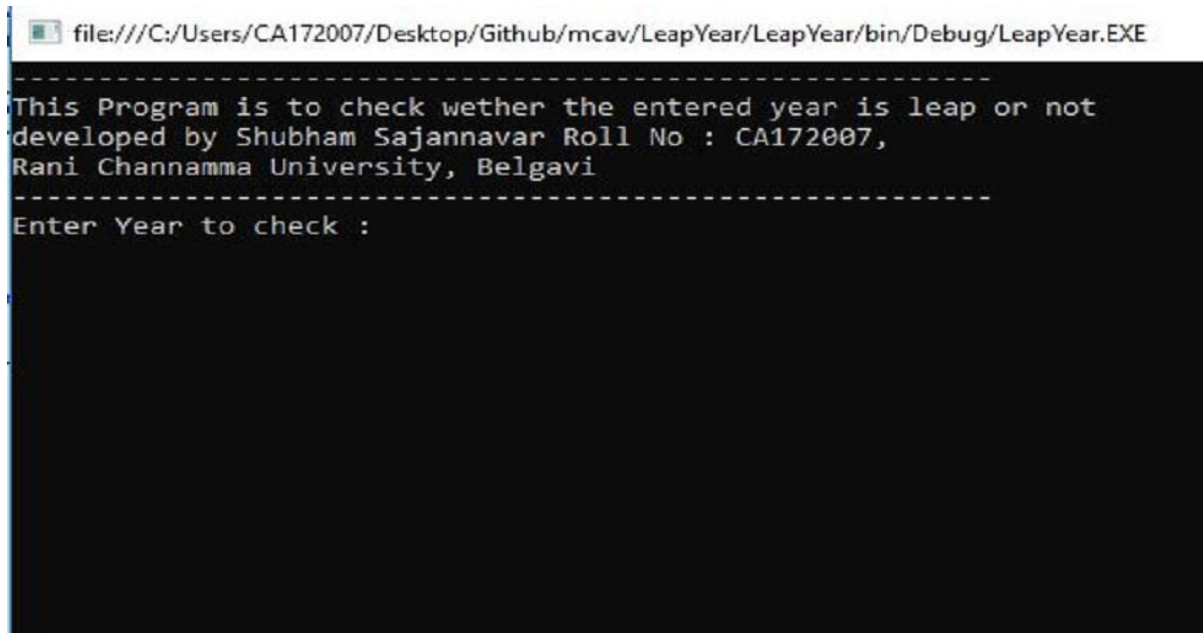


```
file:///C:/Users/CA172007/Desktop/Github/mcav/ArithmeticOperation/ArithmeticOperation/bin/Debug/ArithmeticOperation.EXE
-----
This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi
-----
Enter 1st Number :
1520
Enter 2nd Number :
6565
-----
Addition of          1520 and 6565 = 8085
Substraction of      1520 and 6565 = -5045
Multiplication of    1520 and 6565 = 9978800
Division of          1520 and 6565 = 0
-----
```

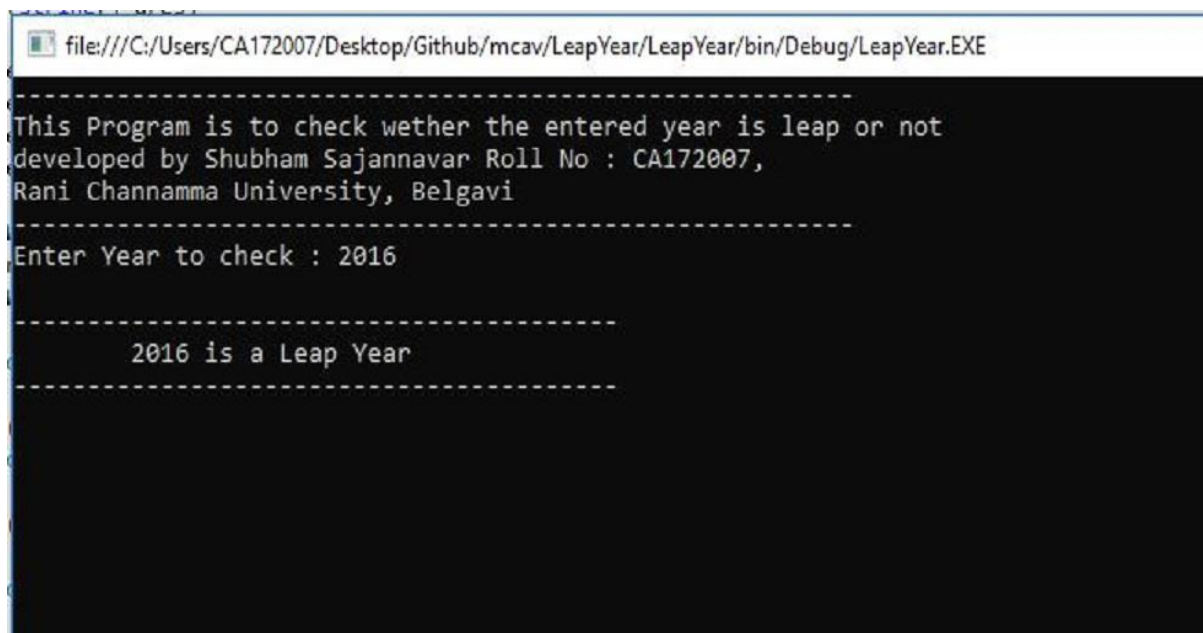
4) Check whether the Entered Year is a Leap or Not.

```
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();
        }
    }
}
```

OUTPUT

```
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 :
```




```
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 : 2016
-----
2016 is a Leap Year
-----
```



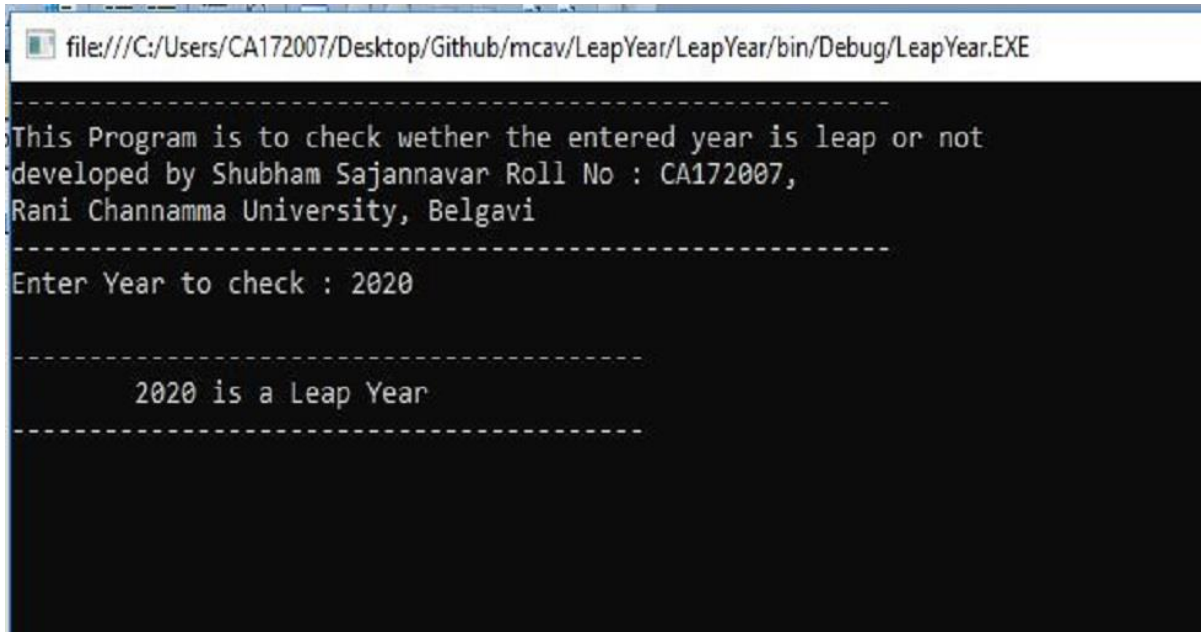
```
file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE
-----
This Program is to check wether the entered year is leap or not
developed by Shubham Sajannavar Roll No : CA172007,
Rani Channamma University, Belgavi
-----
Enter Year to check : asdf

-----
Enter valid year
-----
```



```
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
-----
```



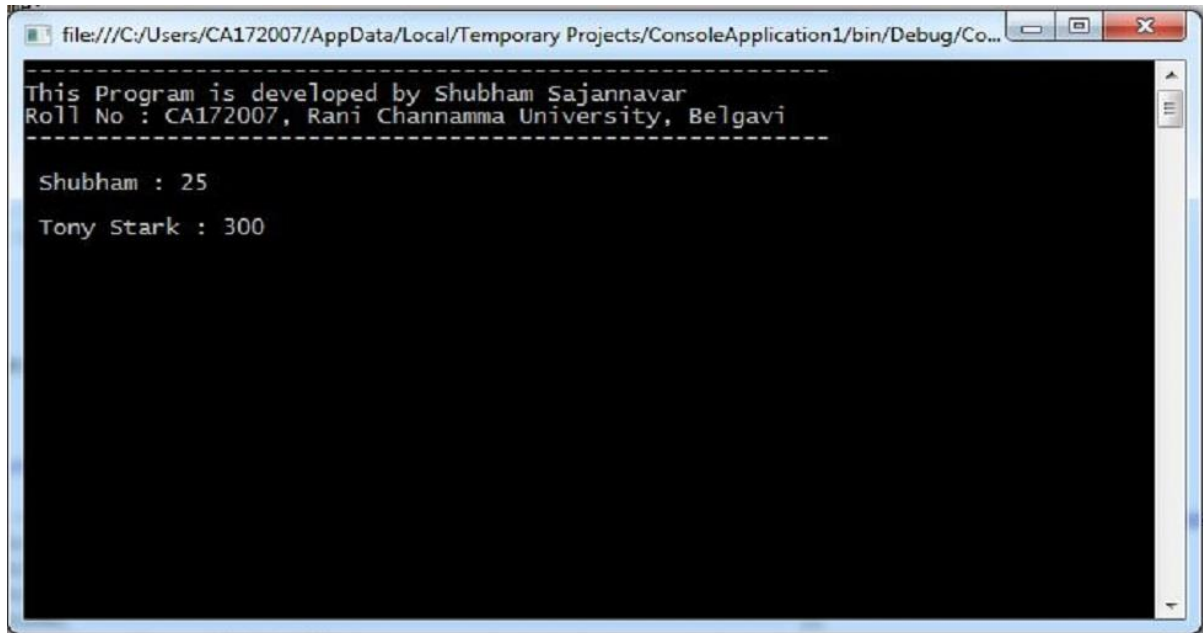
```
file:///C:/Users/CA172007/Desktop/Github/mcav/LeapYear/LeapYear/bin/Debug/LeapYear.EXE
-----
This Program is to check wether the entered year is leap or not
developed by Shubham Sajannavar Roll No : CA172007,
Rani Channamma University, Belgavi
-----
Enter Year to check : 2020

-----
2020 is a Leap Year
-----
```


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

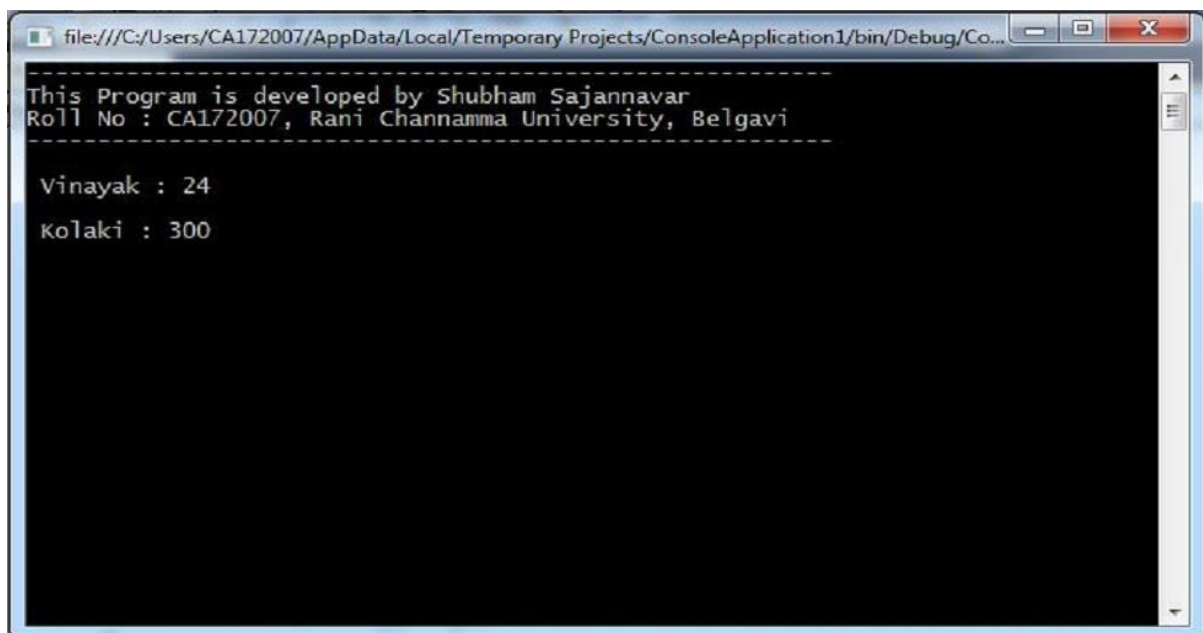
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

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\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();
        }
    }
}
```


OUTPUT

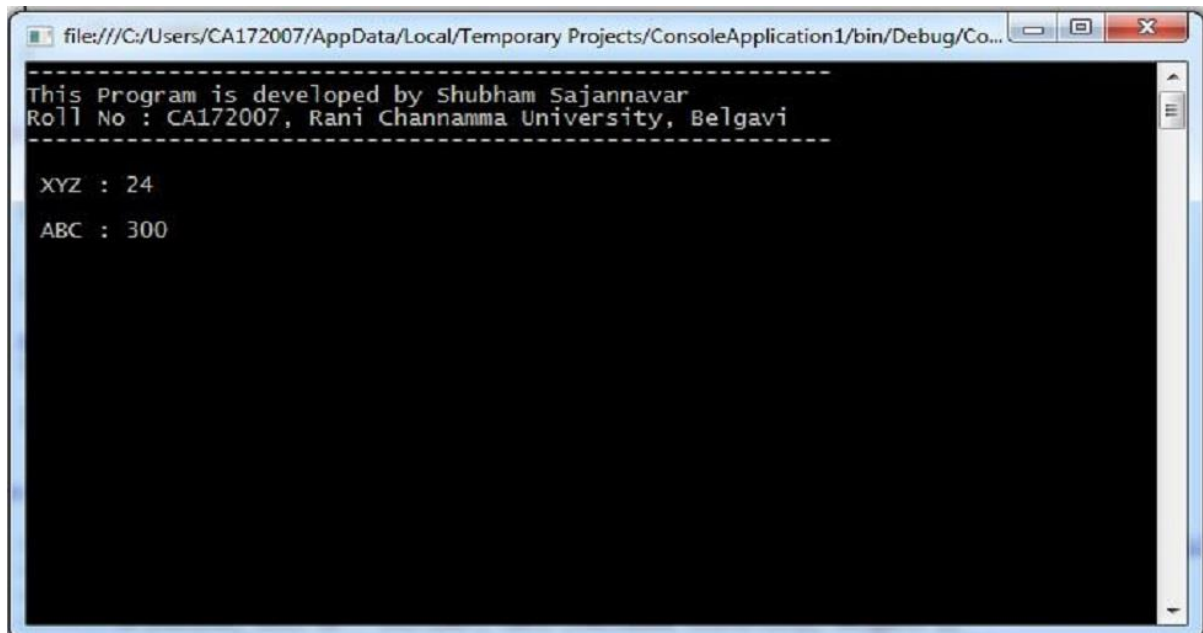
```
file:///C:/Users/CA172007/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/Co...
-----
This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi
-----

Shubham : 25
Tony Stark : 300
```



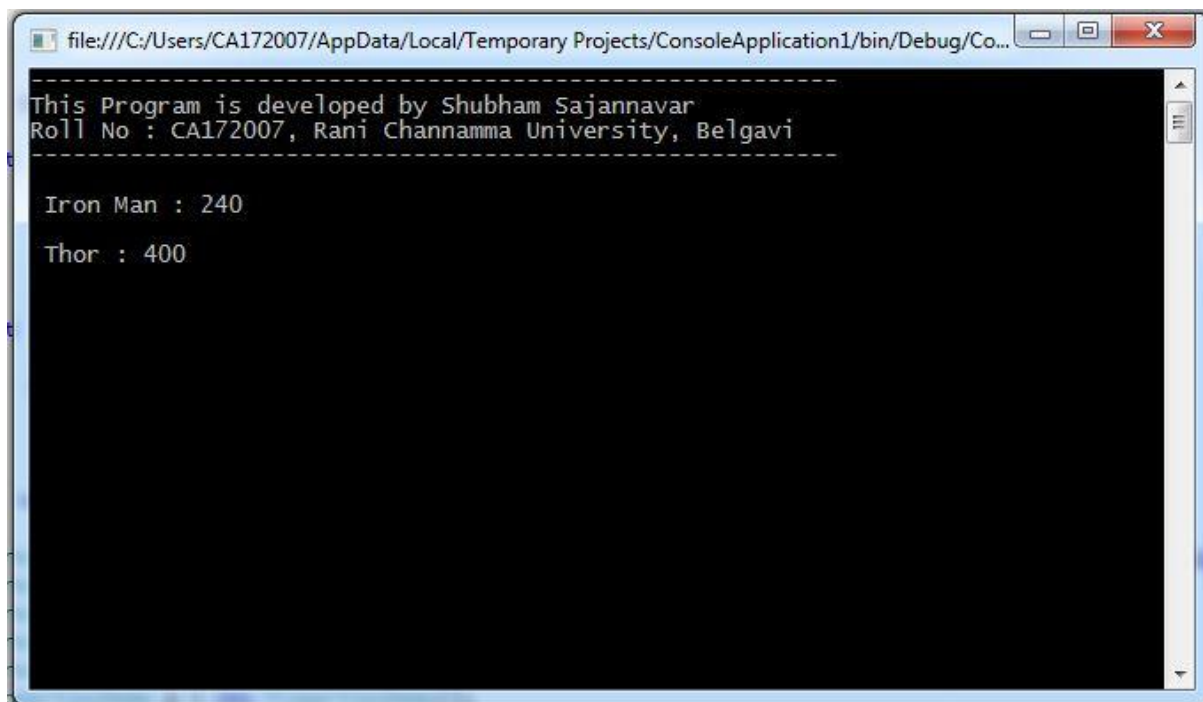
```
file:///C:/Users/CA172007/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/Co...
-----
This Program is developed by Shubham Sajannavar
Roll No : CA172007, Rani Channamma University, Belgavi
-----

Vinayak : 24
kolaki : 300
```



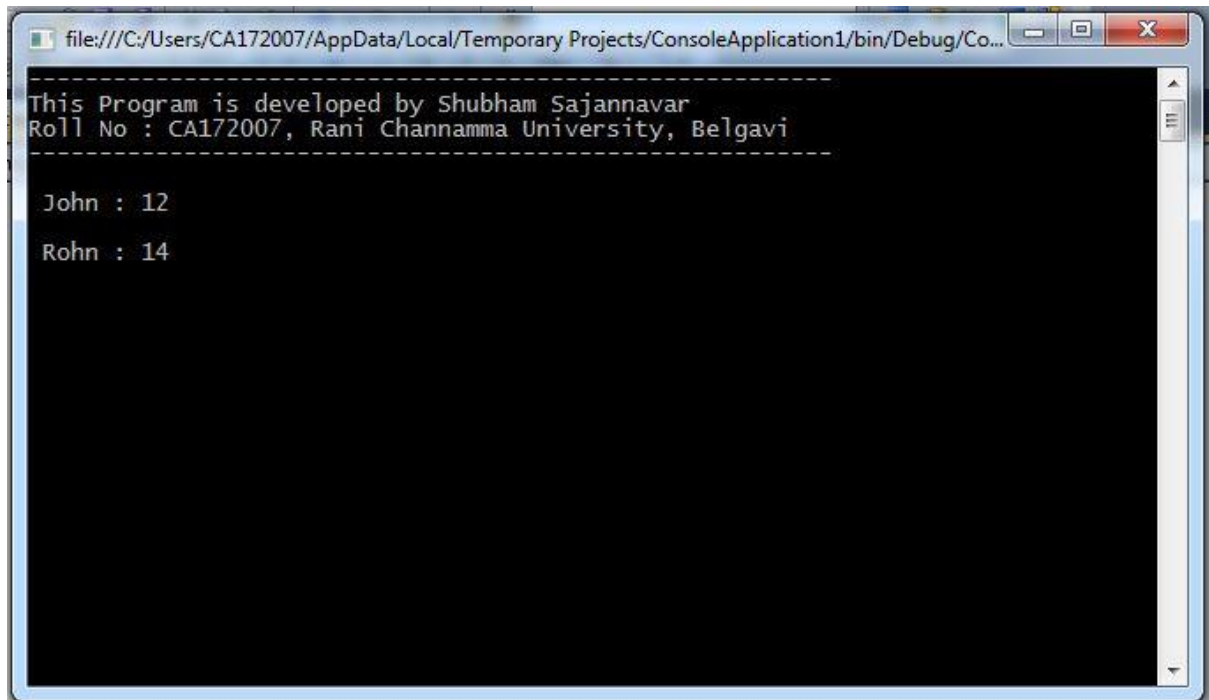
A screenshot of a Windows console application window. The title bar shows the file path: file:///C:/Users/CA172007/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/Co... The console output is as follows:

```
-----  
This Program is developed by Shubham Sajannavar  
Roll No : CA172007, Rani Channamma University, Belgavi  
-----  
  
XYZ : 24  
ABC : 300
```



A screenshot of a Windows console application window. The title bar shows the file path: file:///C:/Users/CA172007/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/Co... The console output is as follows:

```
-----  
This Program is developed by Shubham Sajannavar  
Roll No : CA172007, Rani Channamma University, Belgavi  
-----  
  
Iron Man : 240  
Thor : 400
```



The image shows a screenshot of a Windows console application window. The title bar indicates the file path: `file:///C:/Users/CA172007/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/Co...`. The console output is as follows:

```
-----  
This Program is developed by Shubham Sajannavar  
Roll No : CA172007, Rani Channamma University, Belgavi  
-----  
  
John : 12  
Rohn : 14
```