DEV SANSKRITI
VISHWAVIDYALAYA

Practical file

On

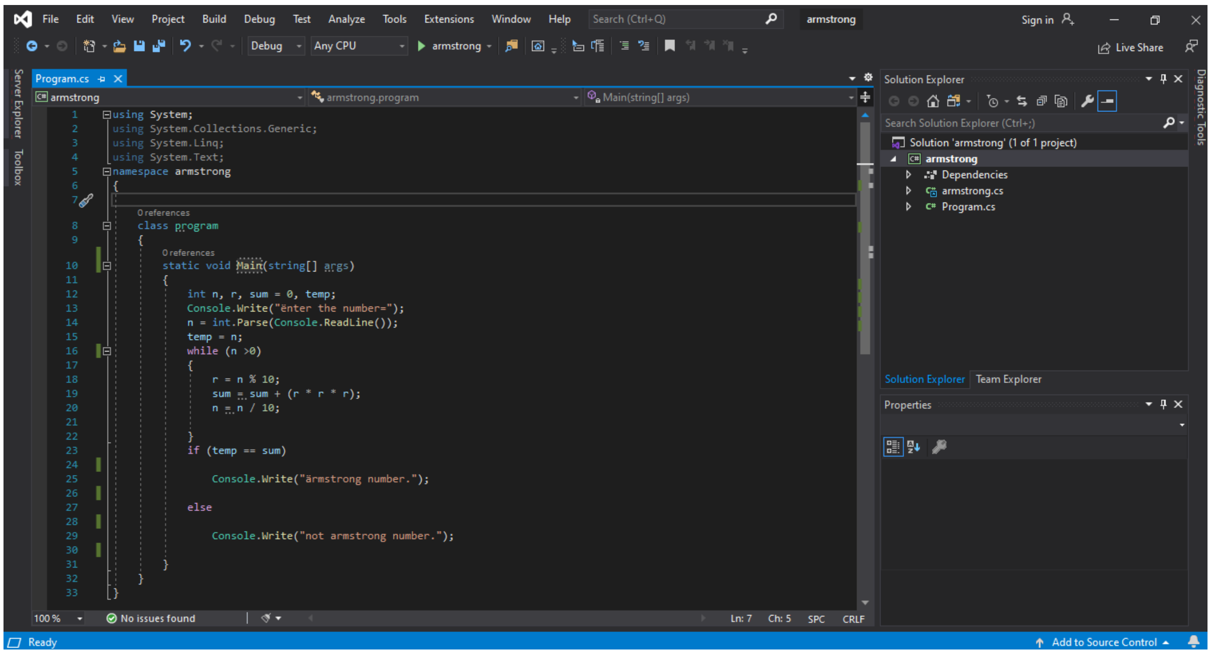
C#.net

SUBMITTED TO: SUMBITTED BY

Mr.Chandrashekhar Patel Sir Aman Yadav (BCA5thsem)

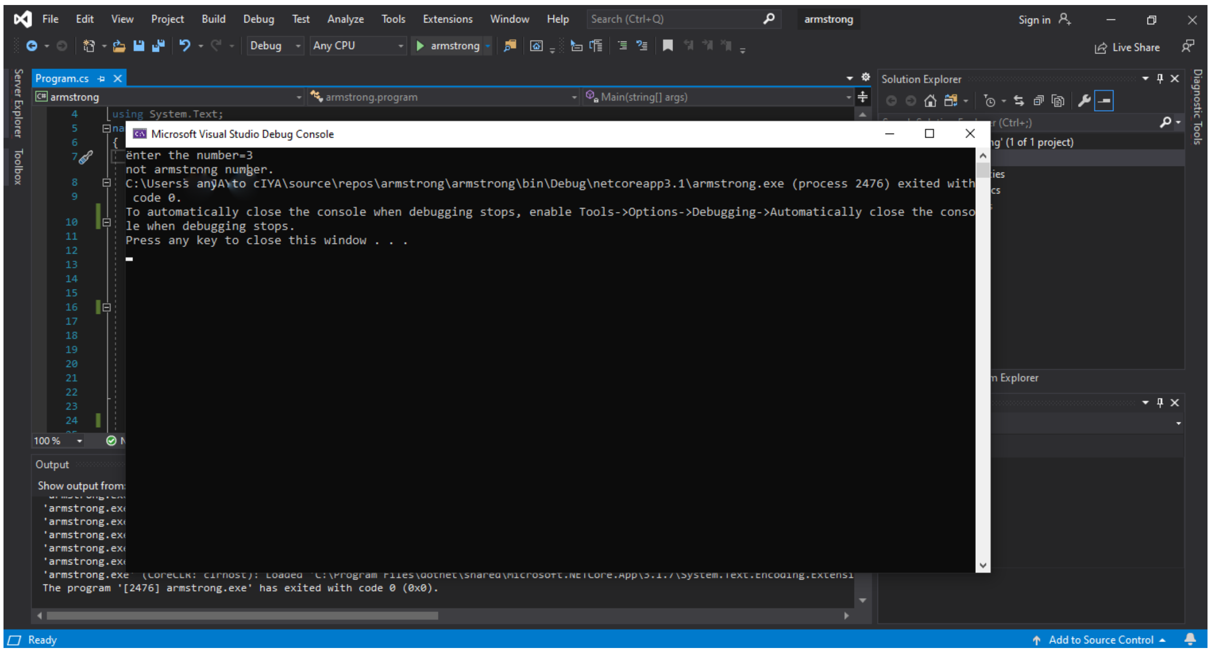
Department of computer science

1] write a programme to print Armstrong number:-



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace armstrong
{

    class program
    {
        static void Main(string[] args)
        {
            int n, r, sum = 0, temp;
            Console.Write("ënter the number=");
            n = int.Parse(Console.ReadLine());
            temp = n;
            while (n >0)
            {
                r = n % 10;
                sum = sum + (r * r * r);
                n = n / 10;

            }
            if (temp == sum)

                Console.Write("ärmstrong number.");

            else

                Console.Write("not armstrong number.");

        }
    }
}
```

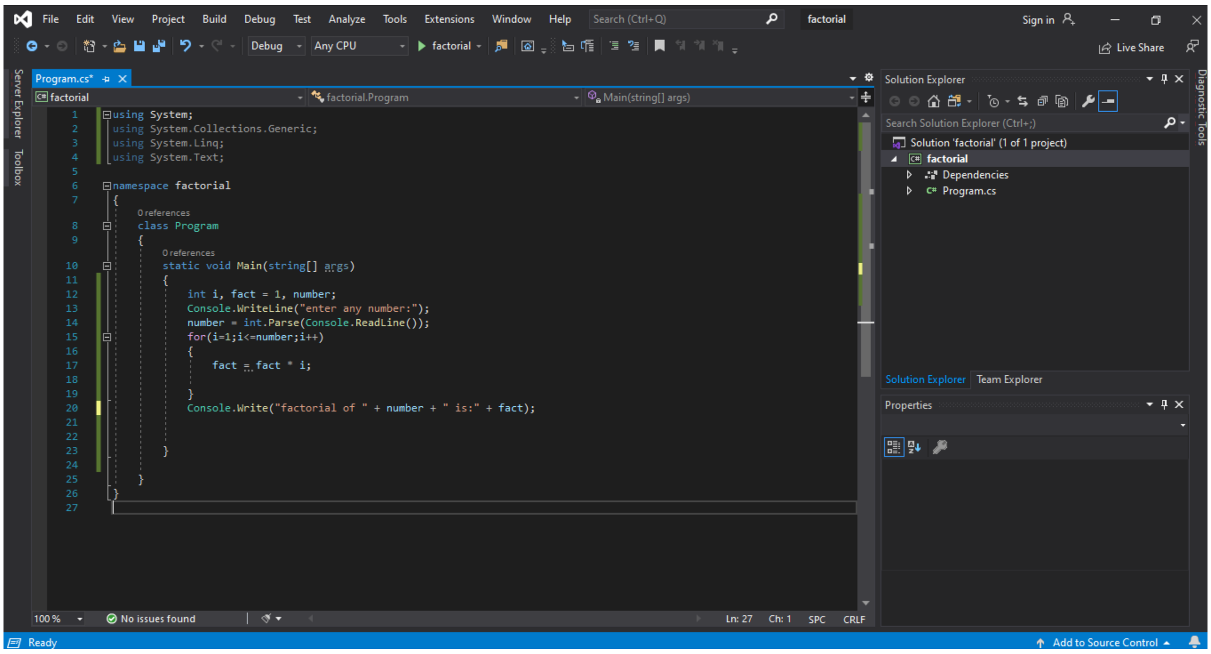
Output:



```
ënter the number=3
not armstrong number.
C:\Userss anyA\to cIYA\source\repos\armstrong\armstrong\bin\Debug\netcoreapp3.1\armstrong.exe (process 2476) exited with
 code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```

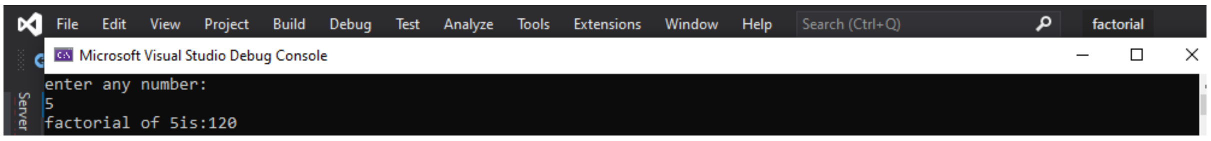
```
The program '[2476] armstrong.exe' has exited with code 0 (0x0).
```

2] write a programme for print factorial of a number:



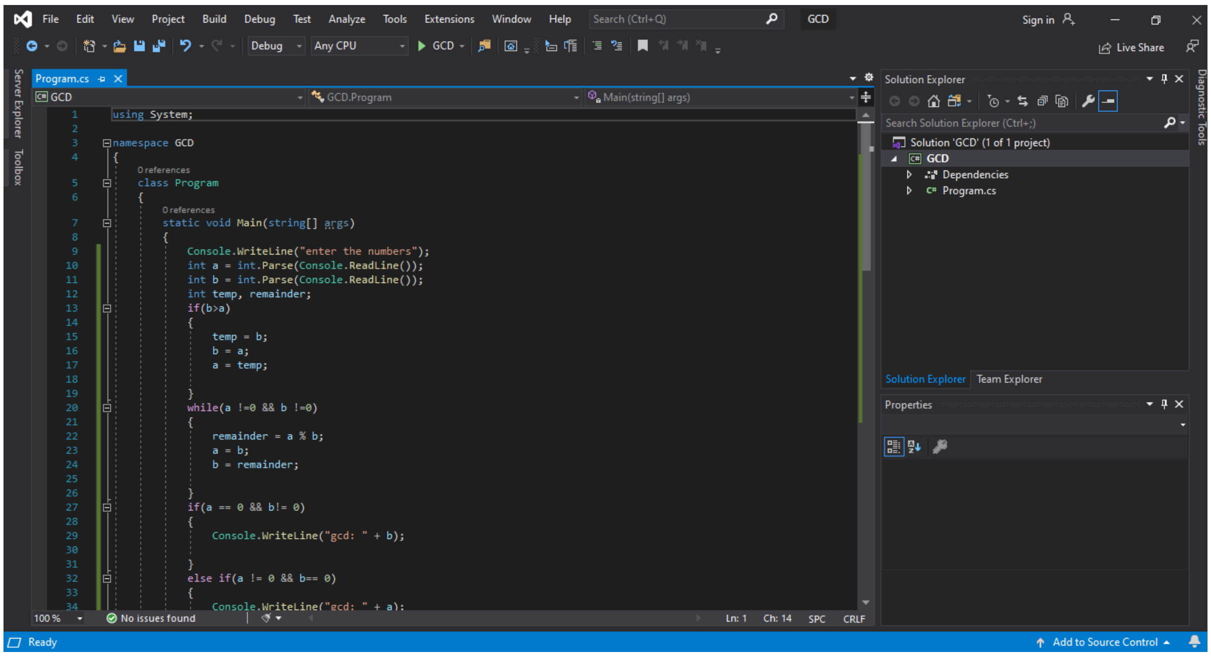
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace factorial
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            int i, fact = 1, number;
            Console.WriteLine("enter any number:");
            number = int.Parse(Console.ReadLine());
            for(i=1;i<=number;i++)
            {
                fact = fact * i;

            }
            Console.Write("factorial of " + number + " is:" + fact);


        }

    }
}
```

Output:



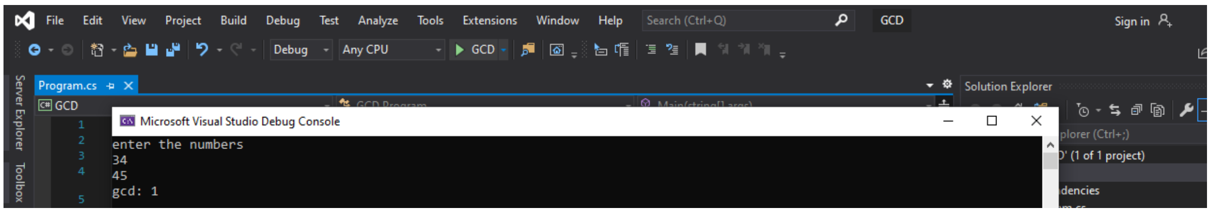
```
enter any number:
5
factorial of 5is:120
```

3] write a programme for find the GCD of 2 numbers:



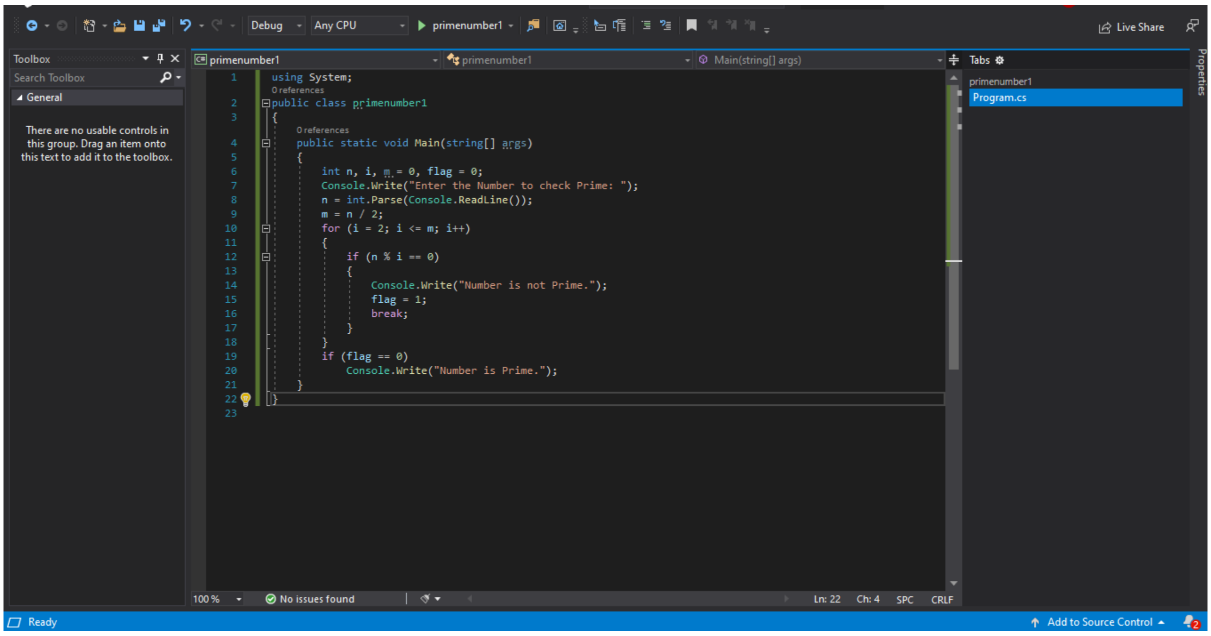
```
using System;

namespace GCD
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            Console.WriteLine("enter the numbers");
            int a = int.Parse(Console.ReadLine());
            int b = int.Parse(Console.ReadLine());
            int temp, remainder;
            if(b>a)
            {
                temp = b;
                b = a;
                a = temp;

            }
            while(a !=0 && b !=0)
            {
                remainder = a % b;
                a = b;
                b = remainder;

            }
            if(a == 0 && b!= 0)
            {
                Console.WriteLine("gcd: " + b);

            }
            else if(a != 0 && b== 0)
            {
                Console.WriteLine("gcd: " + a);
```

Output:



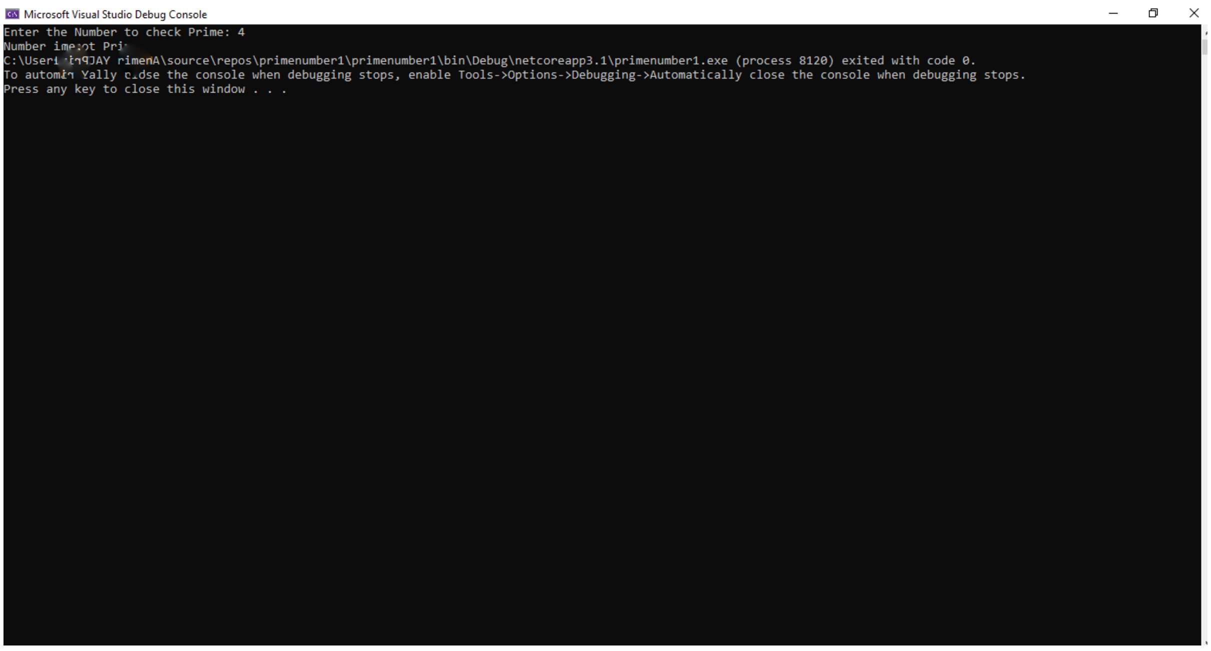
```
enter the numbers
34
45
gcd: 1
```

4] write a programme to check if a number is a prime number



```
using System;
0 references
public class primenumber1
{
    0 references
    public static void Main(string[] args)
    {
        int n, i, m = 0, flag = 0;
        Console.Write("Enter the Number to check Prime: ");
        n = int.Parse(Console.ReadLine());
        m = n / 2;
        for (i = 2; i <= m; i++)
        {
            if (n % i == 0)
            {
                Console.Write("Number is not Prime.");
                flag = 1;
                break;
            }
        }
        if (flag == 0)
            Console.Write("Number is Prime.");
    }
}
```

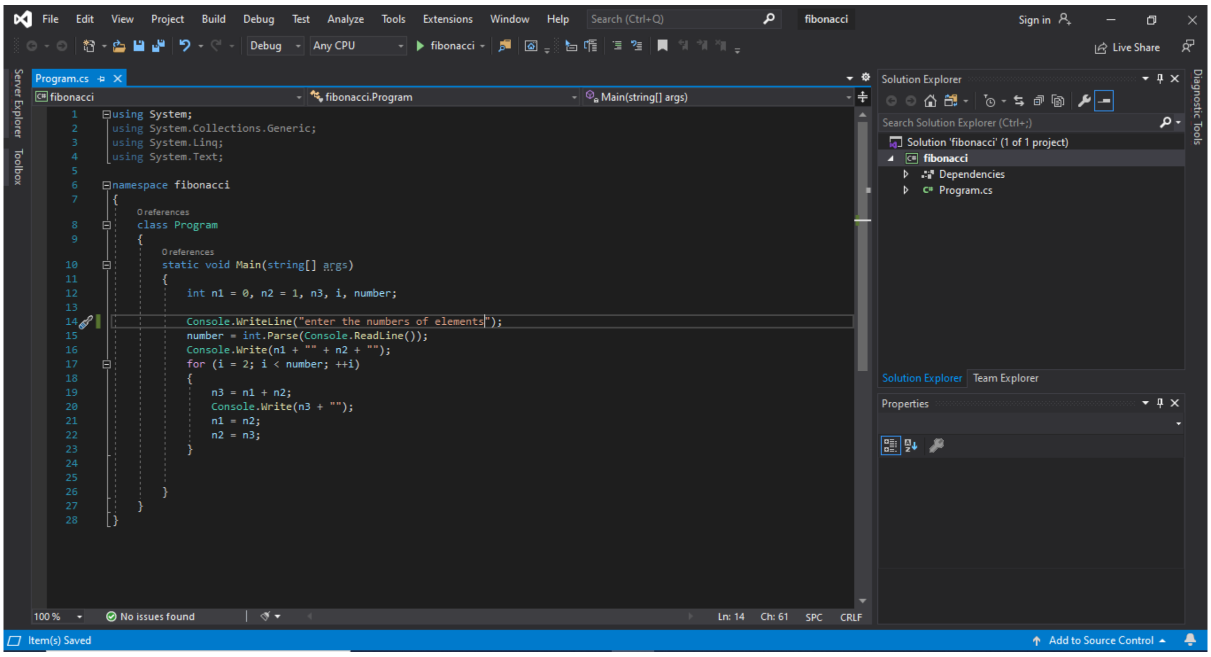
Output:



Microsoft Visual Studio Debug Console

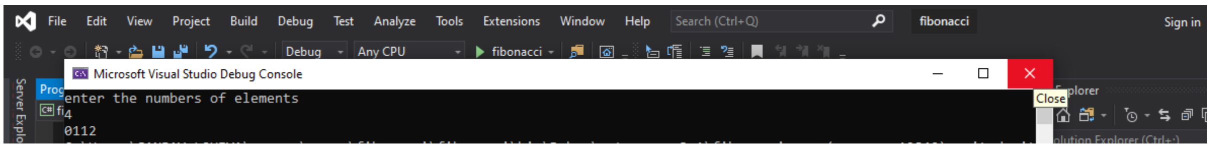
```
Enter the Number to check Prime: 4
Number ime:ot Pri
C:\Useri in9JAY rimenA\source\repos\primenumber1\primenumber1\bin\Debug\netcoreapp3.1\primenumber1.exe (process 8120) exited with code 0.
To automin Yally cidse the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

5] write a programme to print the fibonacci series :



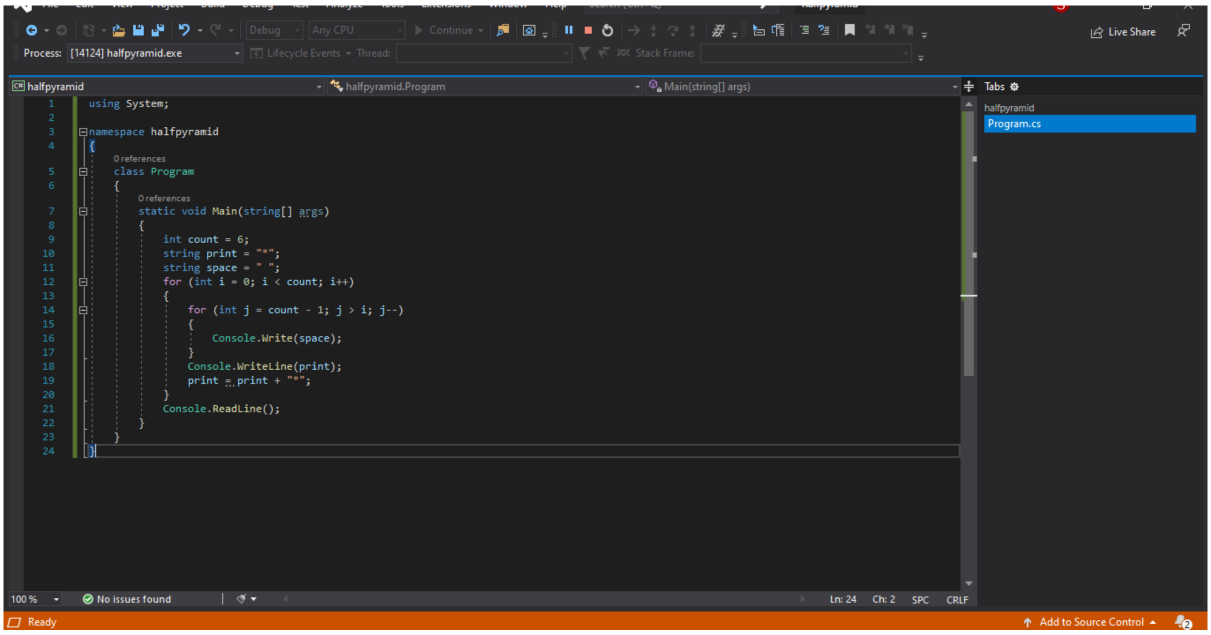
```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace fibonacci
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            int n1 = 0, n2 = 1, n3, i, number;

            Console.WriteLine("enter the numbers of elements");
            number = int.Parse(Console.ReadLine());
            Console.Write(n1 + "" + n2 + "");
            for (i = 2; i < number; ++i)
            {
                n3 = n1 + n2;
                Console.Write(n3 + "");
                n1 = n2;
                n2 = n3;
            }


        }
    }
}
```

Output:



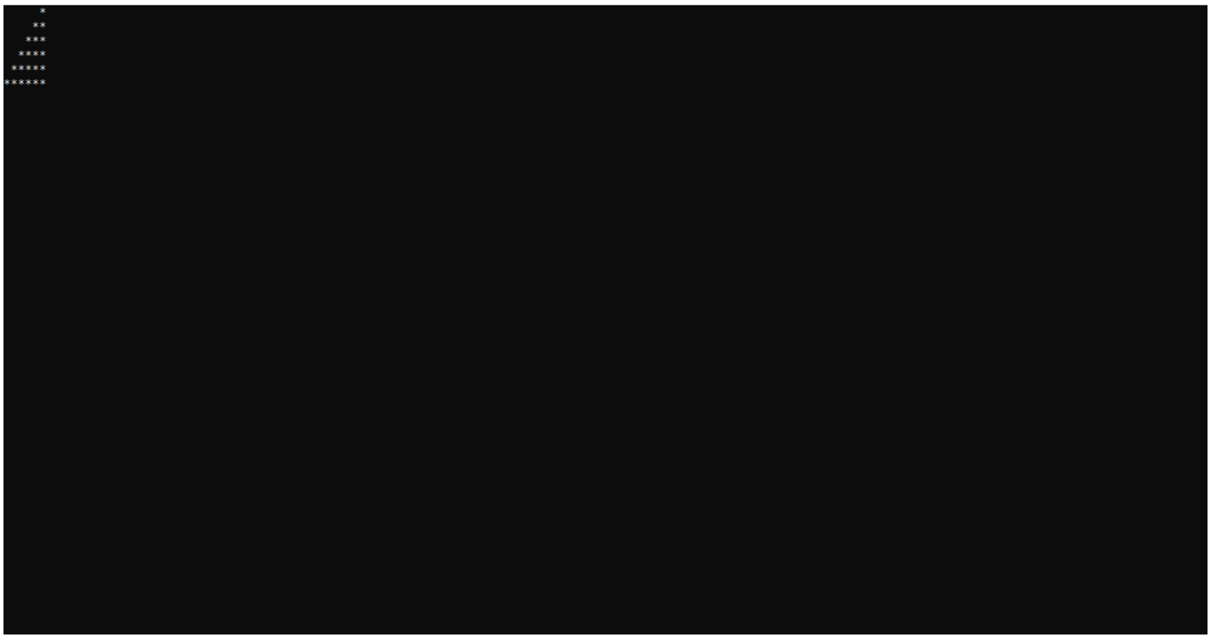
```
enter the numbers of elements
4
0112
```

6] write a programme to print the half pyramid pattern:



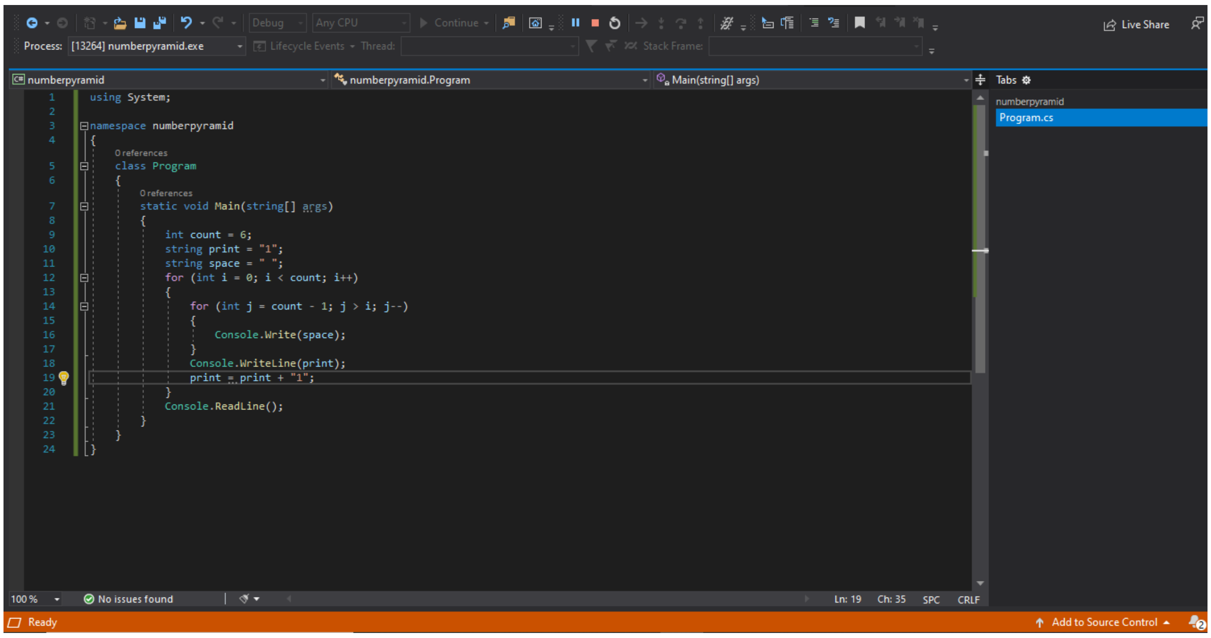
```
using System;

namespace halfpyramid
{
    class Program
    {
        static void Main(string[] args)
        {
            int count = 6;
            string print = "*";
            string space = " ";
            for (int i = 0; i < count; i++)
            {
                for (int j = count - 1; j > i; j--)
                {
                    Console.Write(space);
                }
                Console.WriteLine(print);
                print = print + "*";
            }
            Console.ReadLine();
        }
    }
}
```

Output:



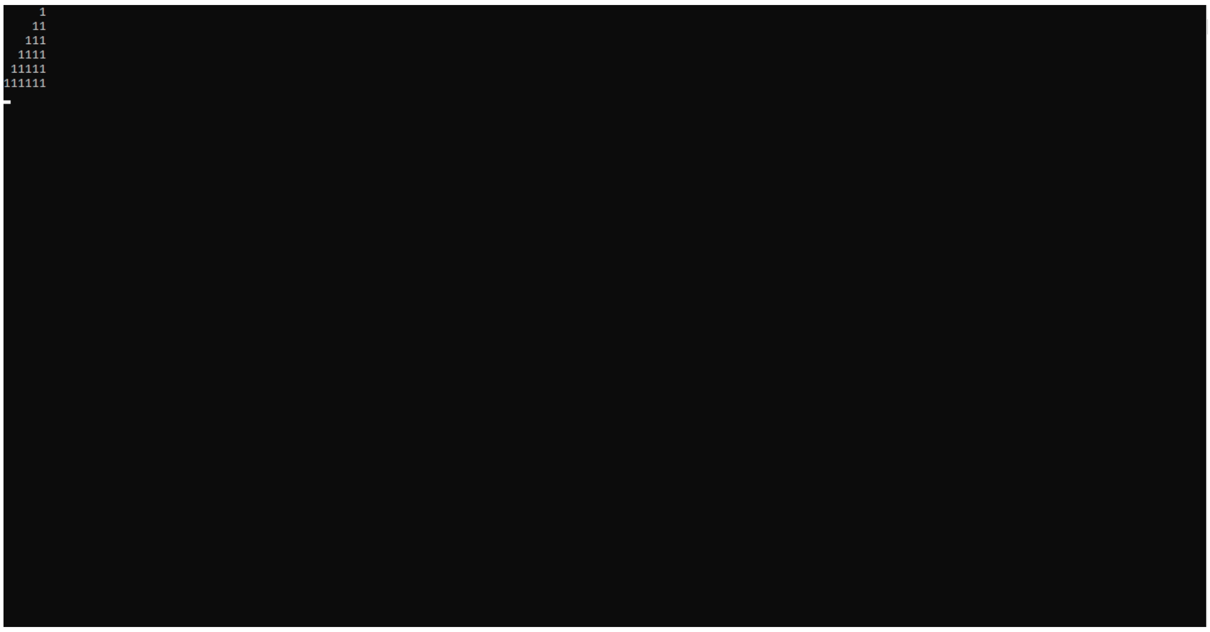
```
     *
    **
   ***
  ****
 *****
******
```

7] Write a programme to print the half pyramid pattern with numbers:



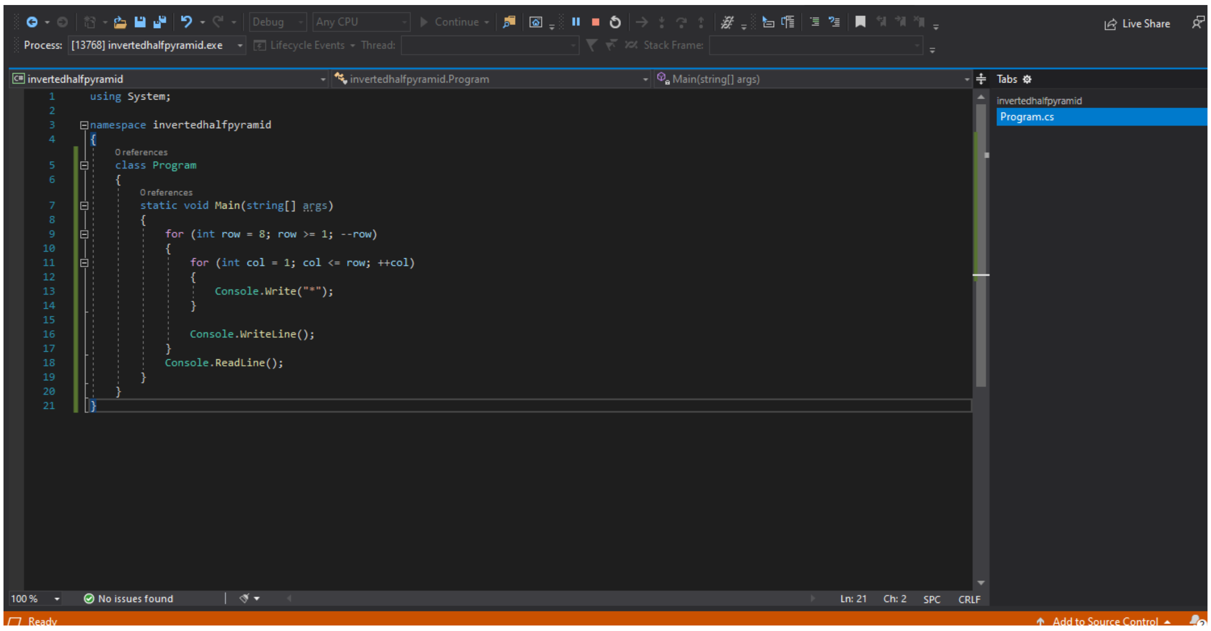
```
using System;

namespace numberpyramid
{
    class Program
    {
        static void Main(string[] args)
        {
            int count = 6;
            string print = "1";
            string space = " ";
            for (int i = 0; i < count; i++)
            {
                for (int j = count - 1; j > i; j--)
                {
                    Console.Write(space);
                }
                Console.WriteLine(print);
                print = print + "1";
            }
            Console.ReadLine();
        }
    }
}
```

Output:



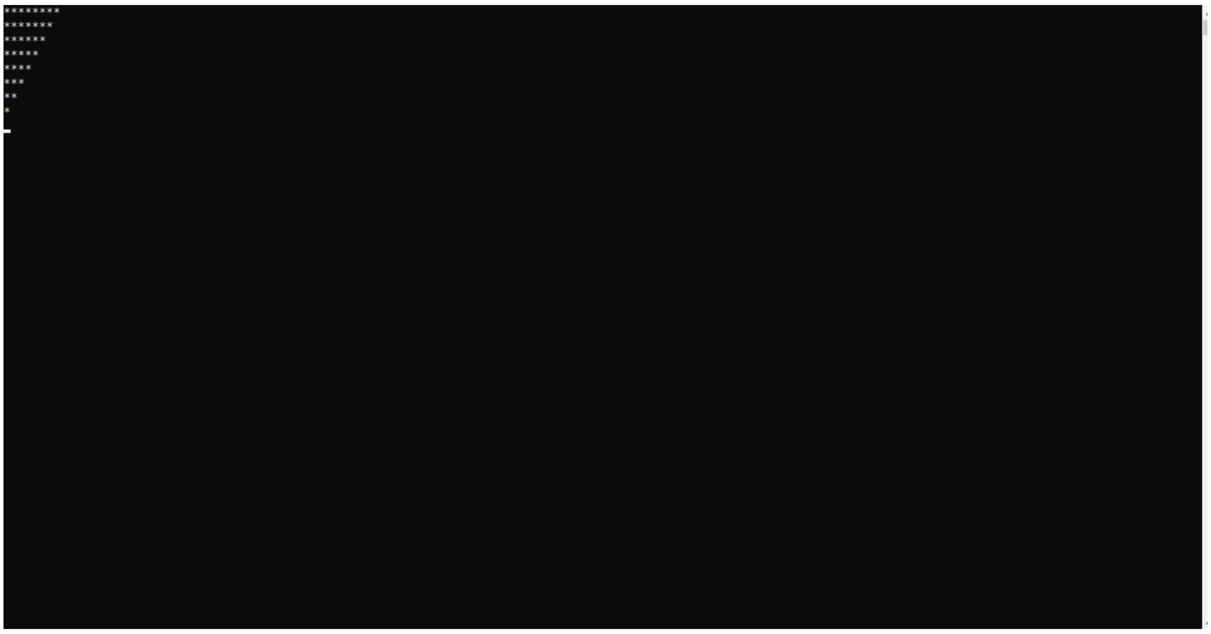
```
     1
    11
   111
  1111
 11111
111111
```

8] Write a programme to print half pyramid inverse pattern:



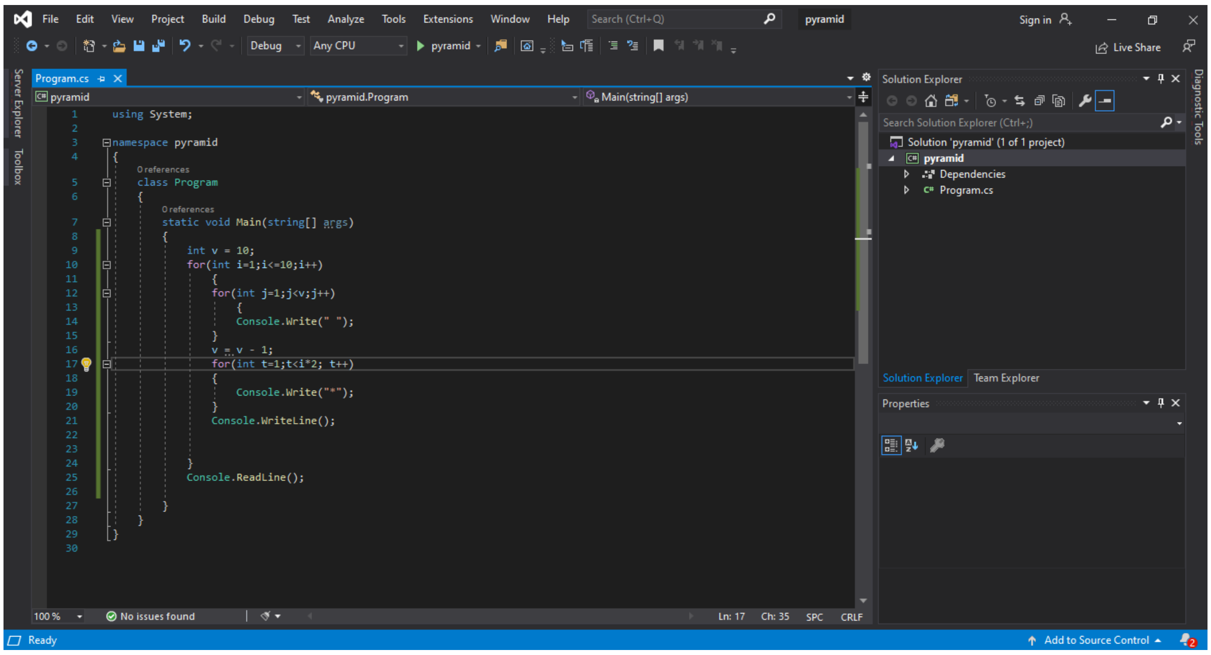
```
using System;

namespace invertedhalfpyramid
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            for (int row = 8; row >= 1; --row)
            {
                for (int col = 1; col <= row; ++col)
                {
                    Console.Write("*");
                }

                Console.WriteLine();
            }
            Console.ReadLine();
        }
    }
}
```

Output:



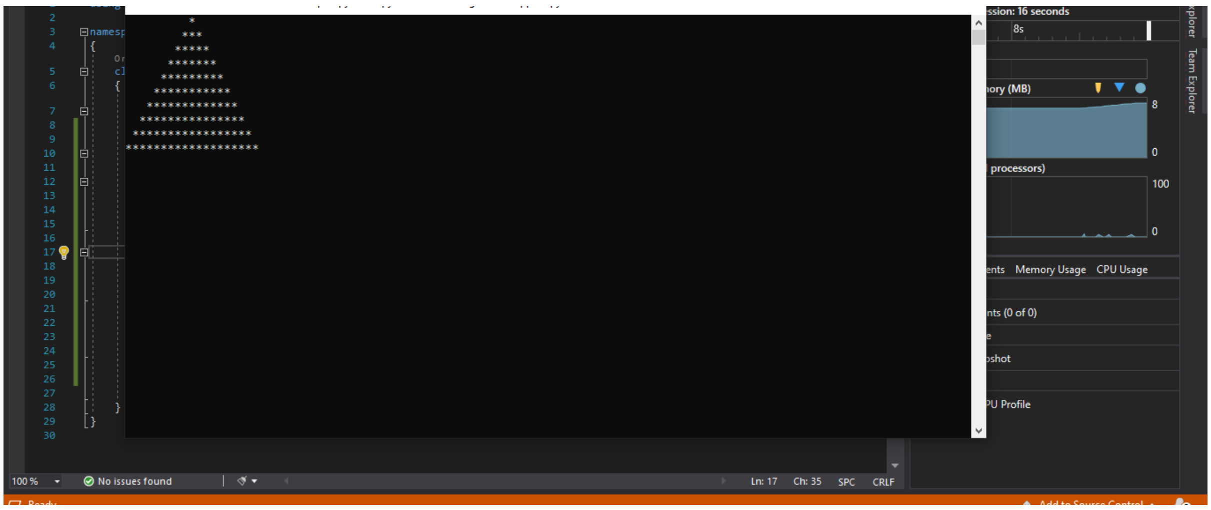
```
********
*******
******
*****
****
***
**
*
```

9] write a programme to print the pyramid pattern:



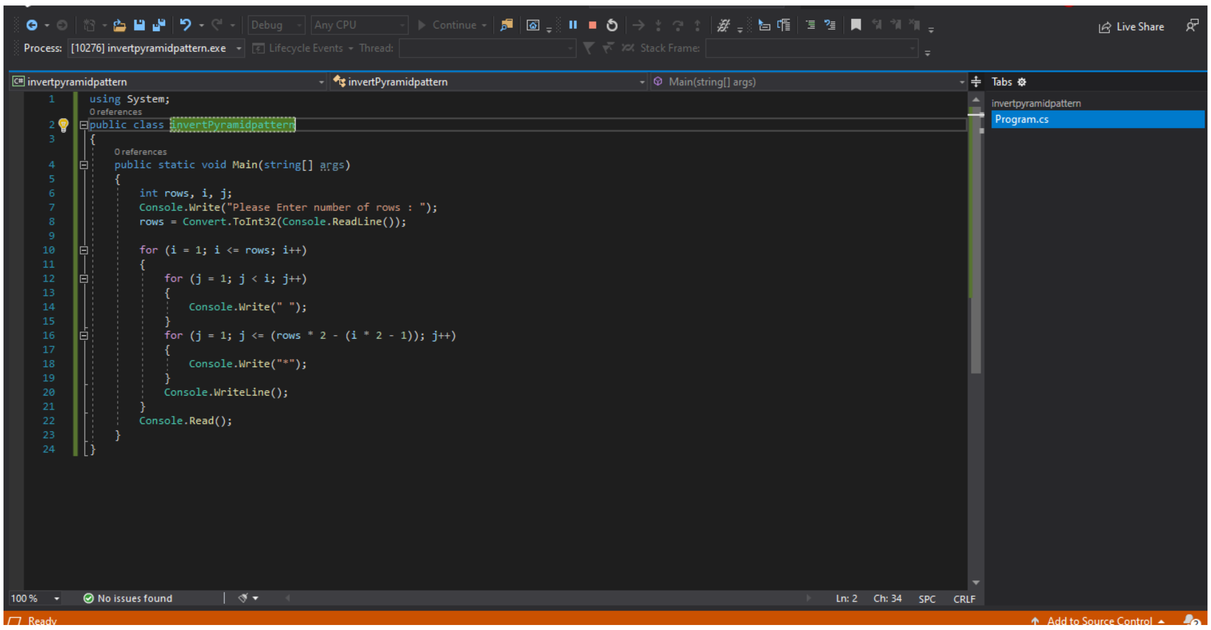
```csharp
using System;

namespace pyramid
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            int v = 10;
            for(int i=1;i<=10;i++)
            {
            for(int j=1;j<v;j++)
                {
                Console.Write(" ");
            }
            v = v - 1;
            for(int t=1;t<i*2; t++)
            {
                Console.Write("*");
            }
            Console.WriteLine();


            }
            Console.ReadLine();

        }
    }
}
```

Output:



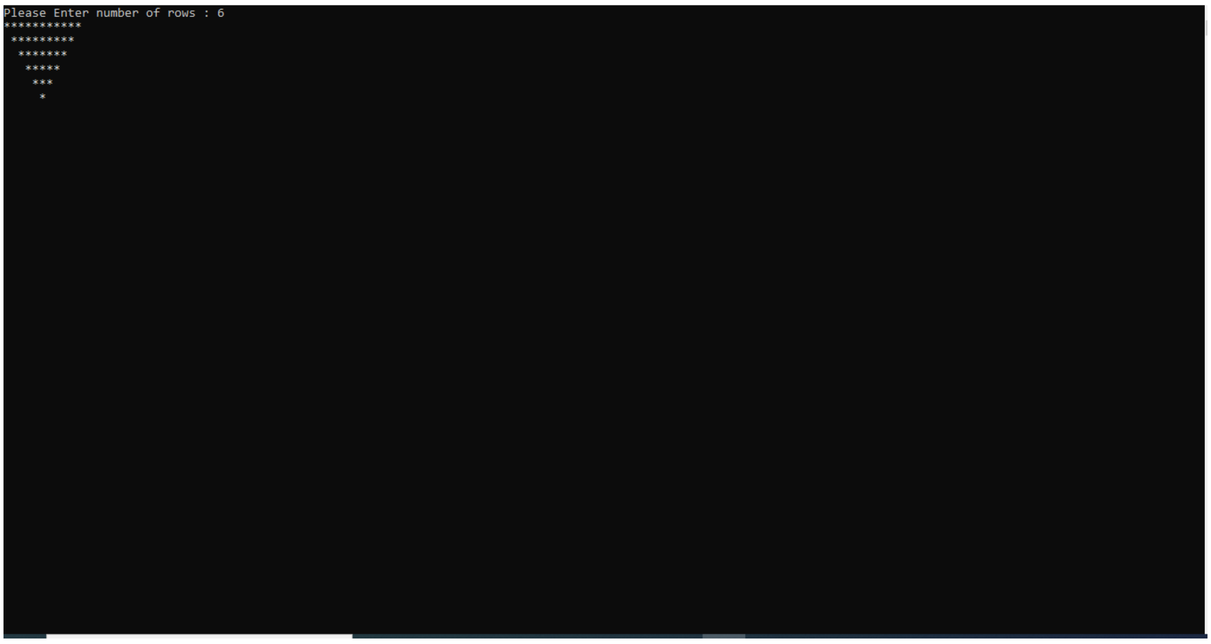
```
         *
        ***
       *****
      *******
     *********
    ***********
   *************
  ***************
 *****************
*******************
```

10] Write a programme to print the inverse pyramid pattern:



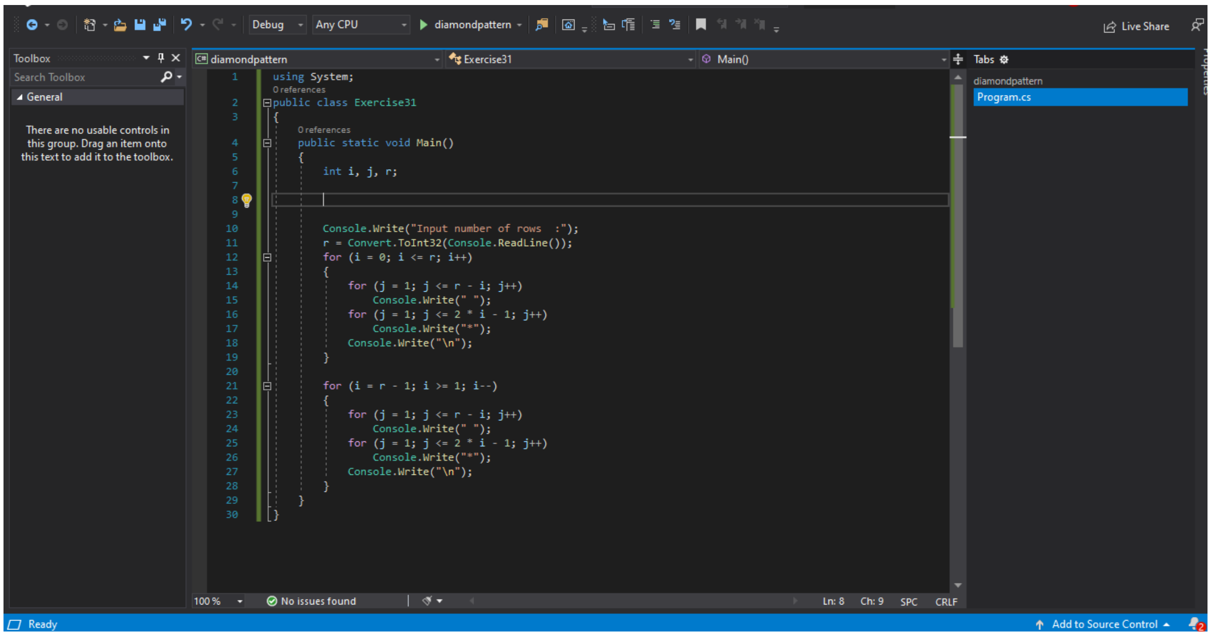
```
using System;
0 references
public class invertPyramidpattern
{
    0 references
    public static void Main(string[] args)
    {
        int rows, i, j;
        Console.Write("Please Enter number of rows : ");
        rows = Convert.ToInt32(Console.ReadLine());

        for (i = 1; i <= rows; i++)
        {
            for (j = 1; j < i; j++)
            {
                Console.Write(" ");
            }
            for (j = 1; j <= (rows * 2 - (i * 2 - 1)); j++)
            {
                Console.Write("*");
            }
            Console.WriteLine();
        }
        Console.Read();
    }
}
```

Output:



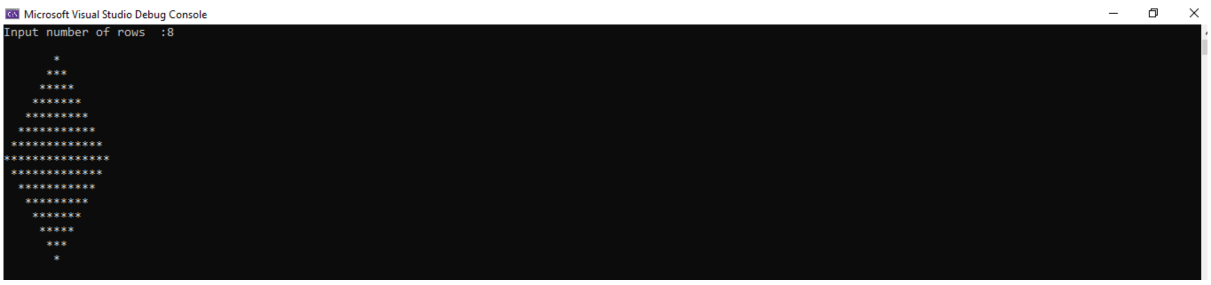
```
Please Enter number of rows : 6
***********
 *********
  *******
   *****
    ***
     *
```

11] Write a programme to print the diamond pattern:



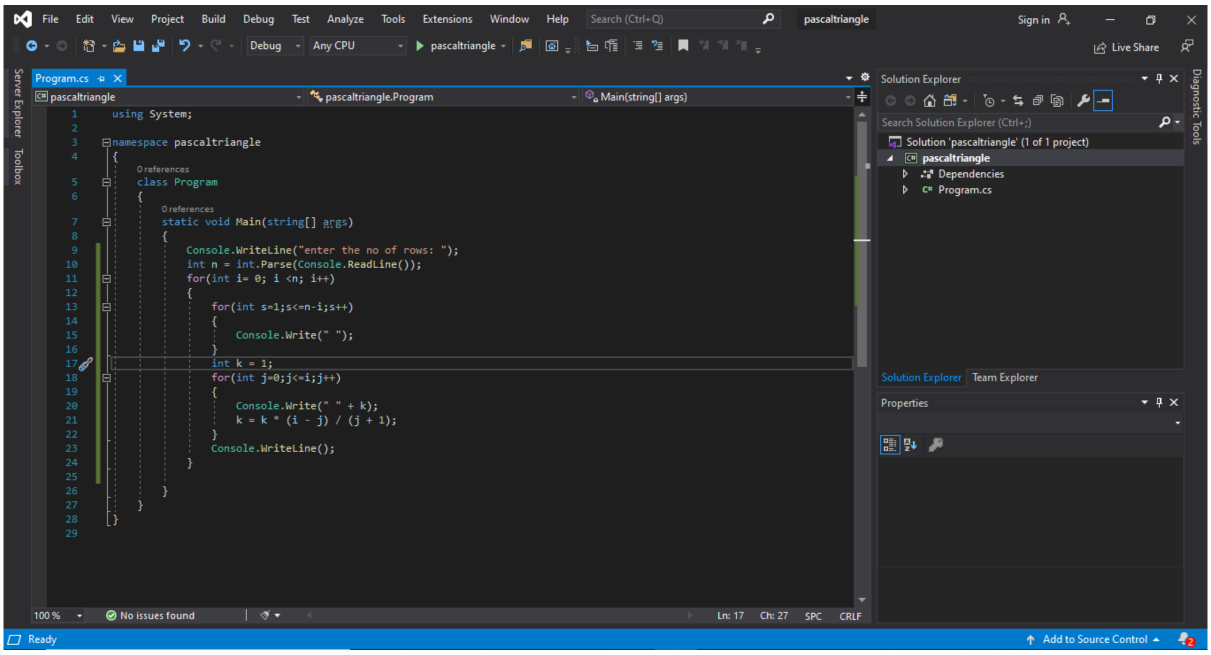
```
using System;
public class Exercise31
{
    public static void Main()
    {
        int i, j, r;
        

        Console.Write("Input number of rows  :");
        r = Convert.ToInt32(Console.ReadLine());
        for (i = 0; i <= r; i++)
        {
            for (j = 1; j <= r - i; j++)
                Console.Write(" ");
            for (j = 1; j <= 2 * i - 1; j++)
                Console.Write("*");
            Console.Write("\n");
        }

        for (i = r - 1; i >= 1; i--)
        {
            for (j = 1; j <= r - i; j++)
                Console.Write(" ");
            for (j = 1; j <= 2 * i - 1; j++)
                Console.Write("*");
            Console.Write("\n");
        }
    }
}
```

Output:



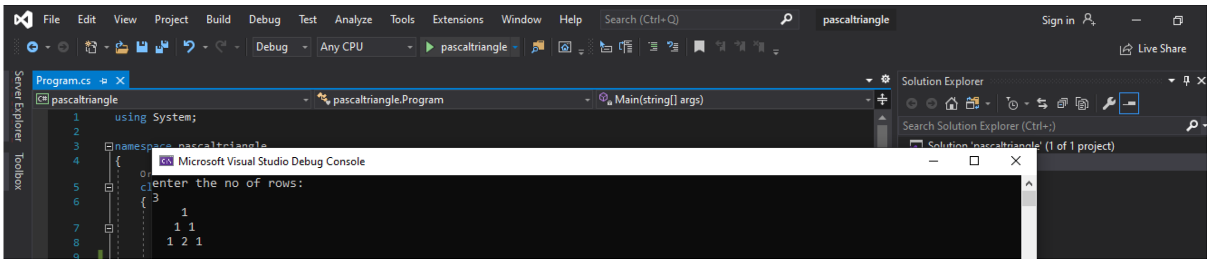
```
Input number of rows  :8

       *
      ***
     *****
    *******
   *********
  ***********
 *************
***************
 *************
  ***********
   *********
    *******
     *****
      ***
       *
```

12] Write a programme to print the pascal's triangle:



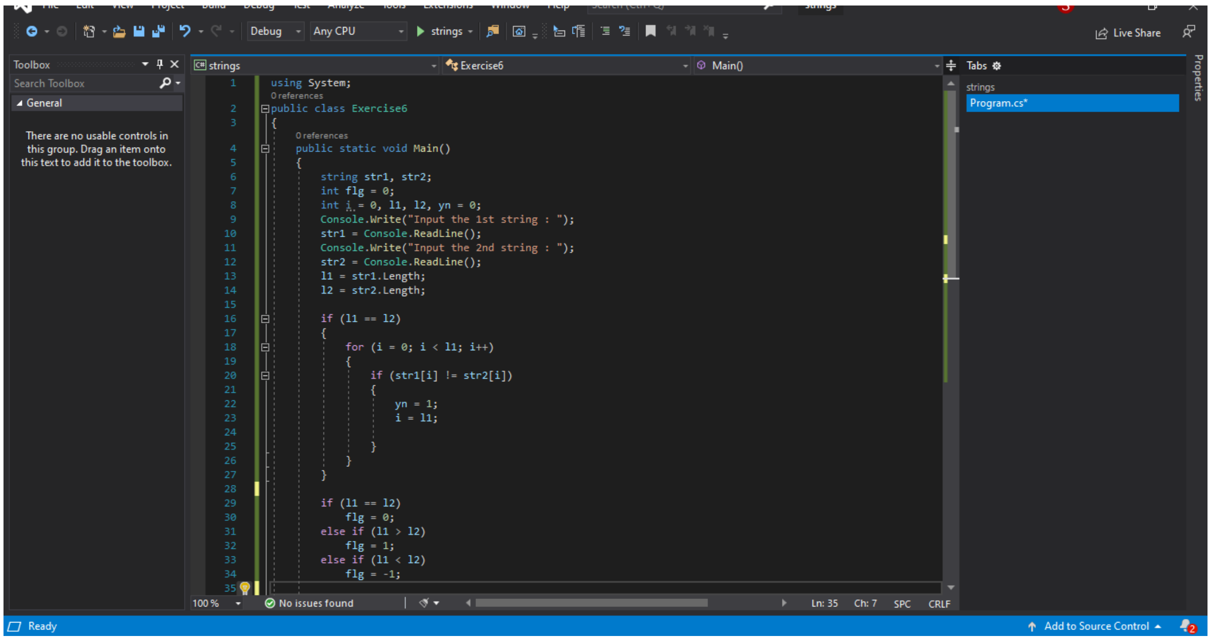
```
using System;

namespace pascaltriangle
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            Console.WriteLine("enter the no of rows: ");
            int n = int.Parse(Console.ReadLine());
            for(int i= 0; i <n; i++)
            {
                for(int s=1;s<=n-i;s++)
                {
                    Console.Write(" ");
                }
                int k = 1;
                for(int j=0;j<=i;j++)
                {
                    Console.Write(" " + k);
                    k = k * (i - j) / (j + 1);
                }
                Console.WriteLine();
            }

        }
    }
}
```

Output:

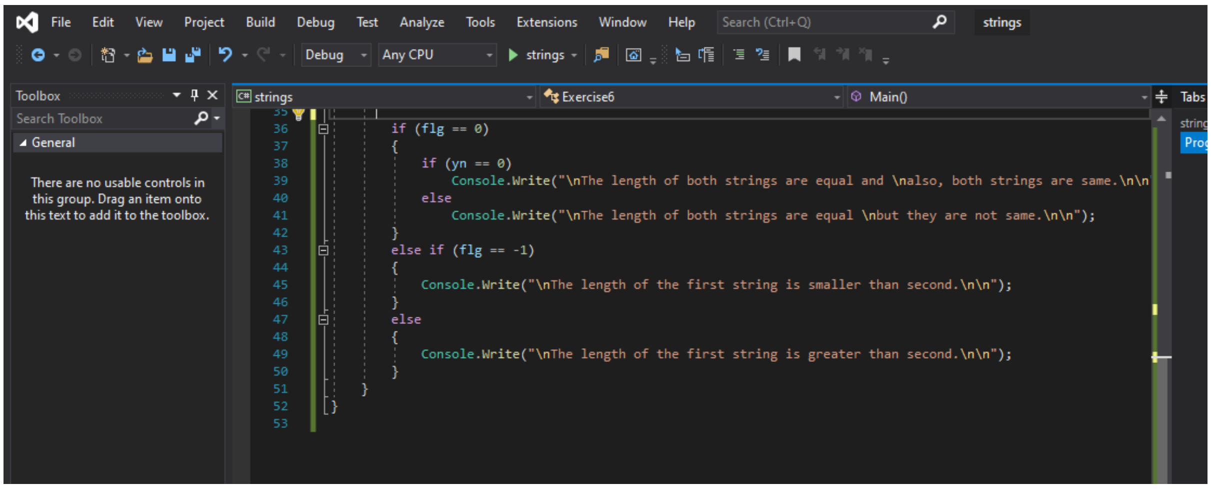


```
enter the no of rows:
3
    1
   1 1
  1 2 1
```

13] Write a programme to compare 2 string without using string library function:

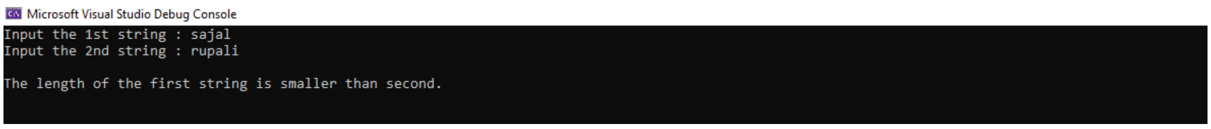


```csharp
using System;
public class Exercise6
{
    public static void Main()
    {
        string str1, str2;
        int flg = 0;
        int i = 0, l1, l2, yn = 0;
        Console.Write("Input the 1st string : ");
        str1 = Console.ReadLine();
        Console.Write("Input the 2nd string : ");
        str2 = Console.ReadLine();
        l1 = str1.Length;
        l2 = str2.Length;

        if (l1 == l2)
        {
            for (i = 0; i < l1; i++)
            {
                if (str1[i] != str2[i])
                {
                    yn = 1;
                    i = l1;

                }
            }
        }

        if (l1 == l2)
            flg = 0;
        else if (l1 > l2)
            flg = 1;
        else if (l1 < l2)
            flg = -1;
```



```csharp

        if (flg == 0)
        {
            if (yn == 0)
                Console.Write("\nThe length of both strings are equal and \nalso, both strings are same.\n\n
            else
                Console.Write("\nThe length of both strings are equal \nbut they are not same.\n\n");
        }
        else if (flg == -1)
        {
            Console.Write("\nThe length of the first string is smaller than second.\n\n");
        }
        else
        {
            Console.Write("\nThe length of the first string is greater than second.\n\n");
        }
    }
}
```

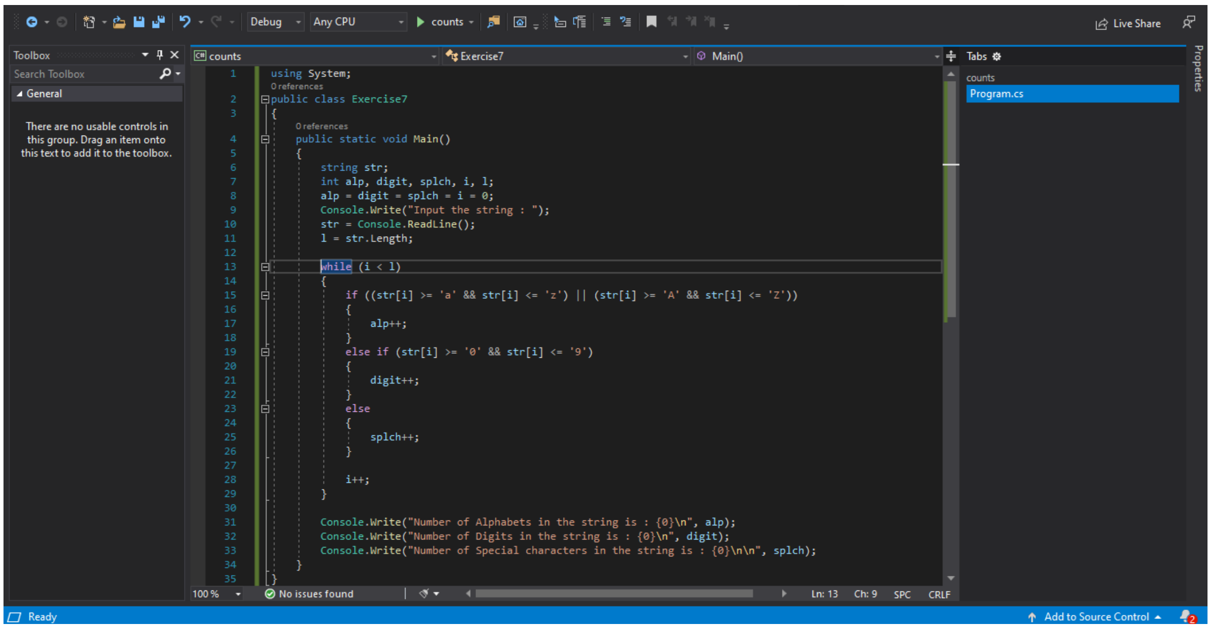
Output:



Microsoft Visual Studio Debug Console

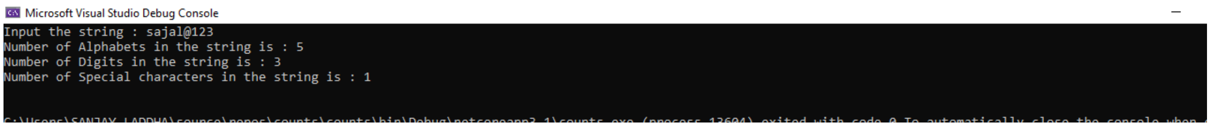
```
Input the 1st string : sajal
Input the 2nd string : rupali

The length of the first string is smaller than second.
```

14] Write a programme to count a total numbers of alphabets , digits and special characters in a string:



```
using System;
0 references
public class Exercise7
{
    0 references
    public static void Main()
    {
        string str;
        int alp, digit, splch, i, l;
        alp = digit = splch = i = 0;
        Console.Write("Input the string : ");
        str = Console.ReadLine();
        l = str.Length;

        while (i < l)
        {
            if ((str[i] >= 'a' && str[i] <= 'z') || (str[i] >= 'A' && str[i] <= 'Z'))
            {
                alp++;
            }
            else if (str[i] >= '0' && str[i] <= '9')
            {
                digit++;
            }
            else
            {
                splch++;
            }

            i++;
        }

        Console.Write("Number of Alphabets in the string is : {0}\n", alp);
        Console.Write("Number of Digits in the string is : {0}\n", digit);
        Console.Write("Number of Special characters in the string is : {0}\n\n", splch);
    }
}
```

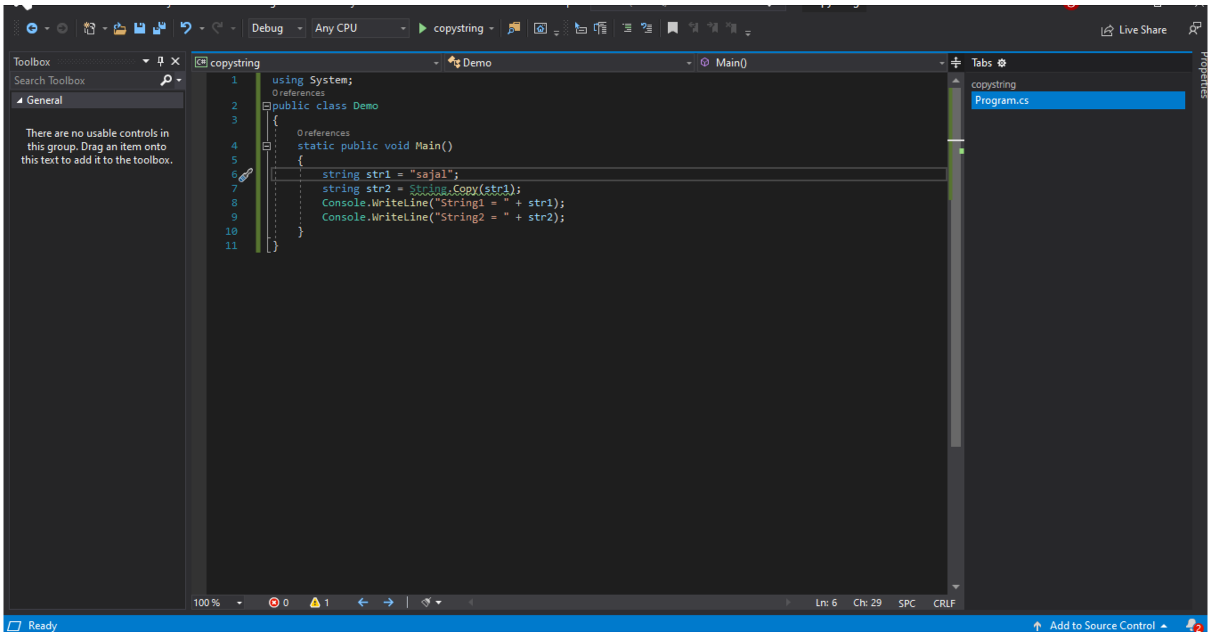
Output:



Microsoft Visual Studio Debug Console

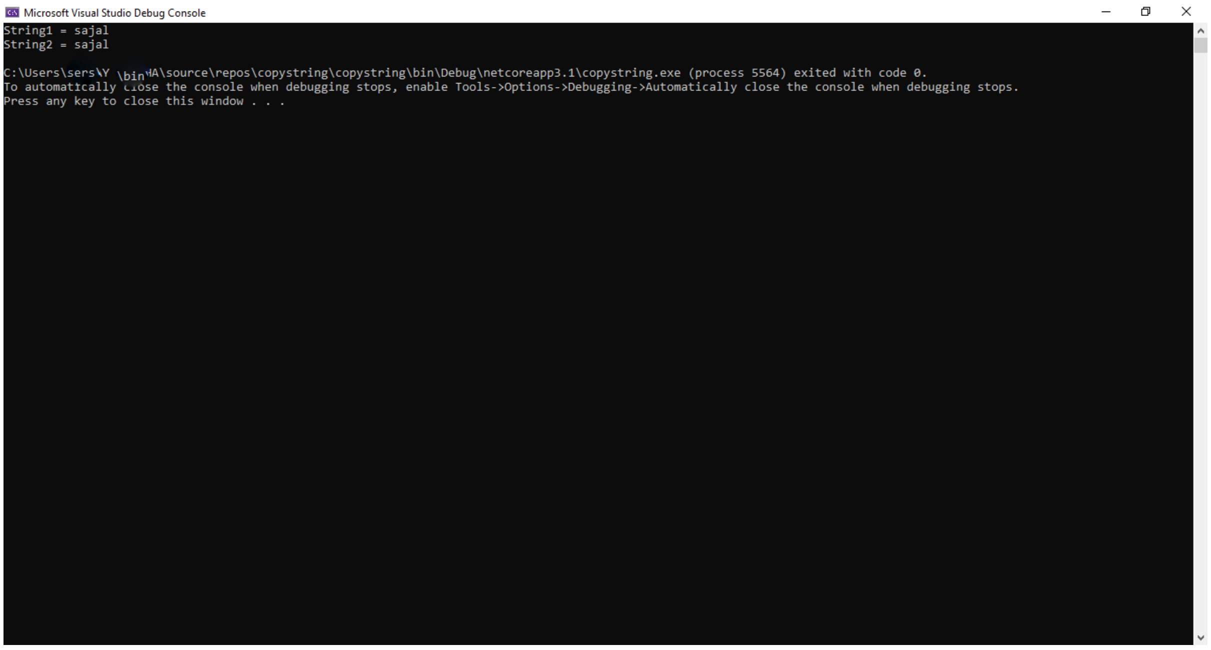
```
Input the string : sajal@123
Number of Alphabets in the string is : 5
Number of Digits in the string is : 3
Number of Special characters in the string is : 1


C:\Users\SANJAY LADDHA\source\repos\counts\counts\bin\Debug\netcoreapp3.1\counts.exe (process 13604) exited with code 0.To automatically close the console when
```

15] Write a programme to copy one string to another string:



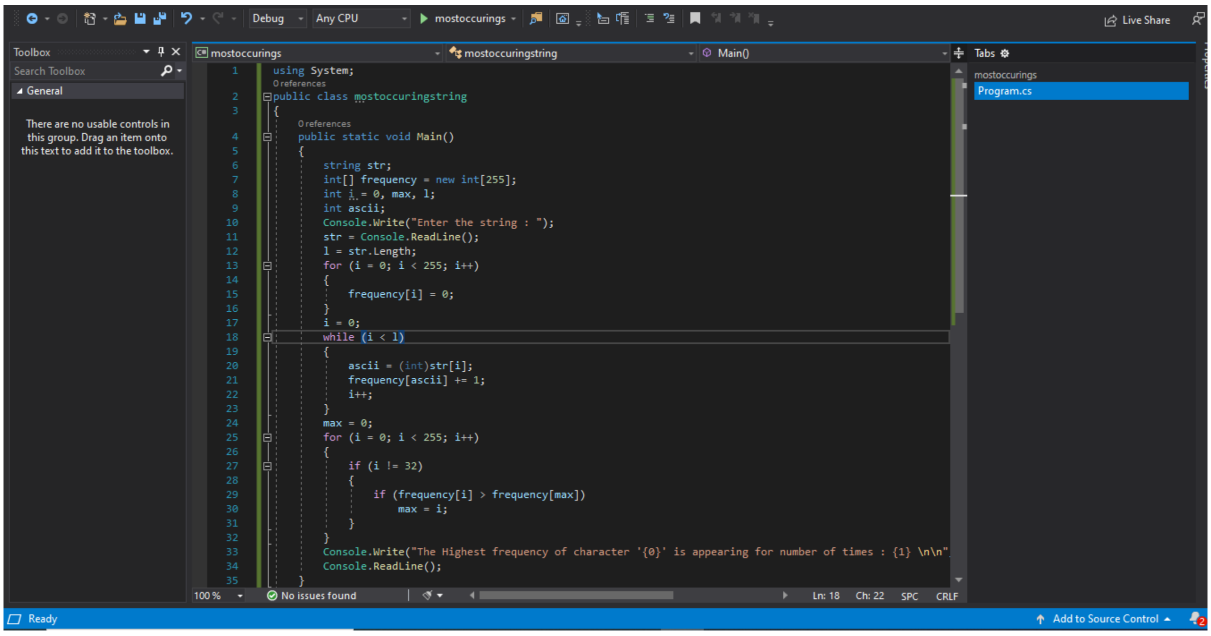
```csharp
using System;
public class Demo
{
    static public void Main()
    {
        string str1 = "sajal";
        string str2 = String.Copy(str1);
        Console.WriteLine("String1 = " + str1);
        Console.WriteLine("String2 = " + str2);
    }
}
```

Output:



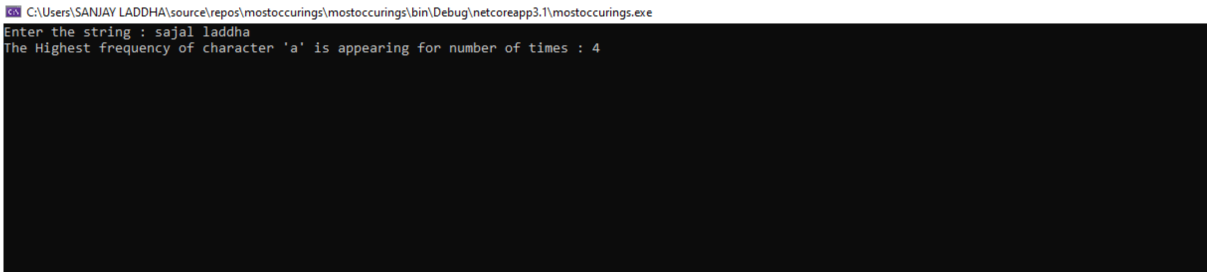
```
String1 = sajal
String2 = sajal

C:\Users\sers\Y \bin A\source\repos\copystring\copystring\bin\Debug\netcoreapp3.1\copystring.exe (process 5564) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

16] Write a programme to find maximum occurring character in a string:



```
using System;
0 references
public class mostoccuringstring
{
    0 references
    public static void Main()
    {
        string str;
        int[] frequency = new int[255];
        int i = 0, max, l;
        int ascii;
        Console.Write("Enter the string : ");
        str = Console.ReadLine();
        l = str.Length;
        for (i = 0; i < 255; i++)
        {
            frequency[i] = 0;
        }
        i = 0;
        while (i < l)
        {
            ascii = (int)str[i];
            frequency[ascii] += 1;
            i++;
        }
        max = 0;
        for (i = 0; i < 255; i++)
        {
            if (i != 32)
            {
                if (frequency[i] > frequency[max])
                    max = i;
            }
        }
        Console.Write("The Highest frequency of character '{0}' is appearing for number of times : {1} \n\n"
        Console.ReadLine();
    }
```

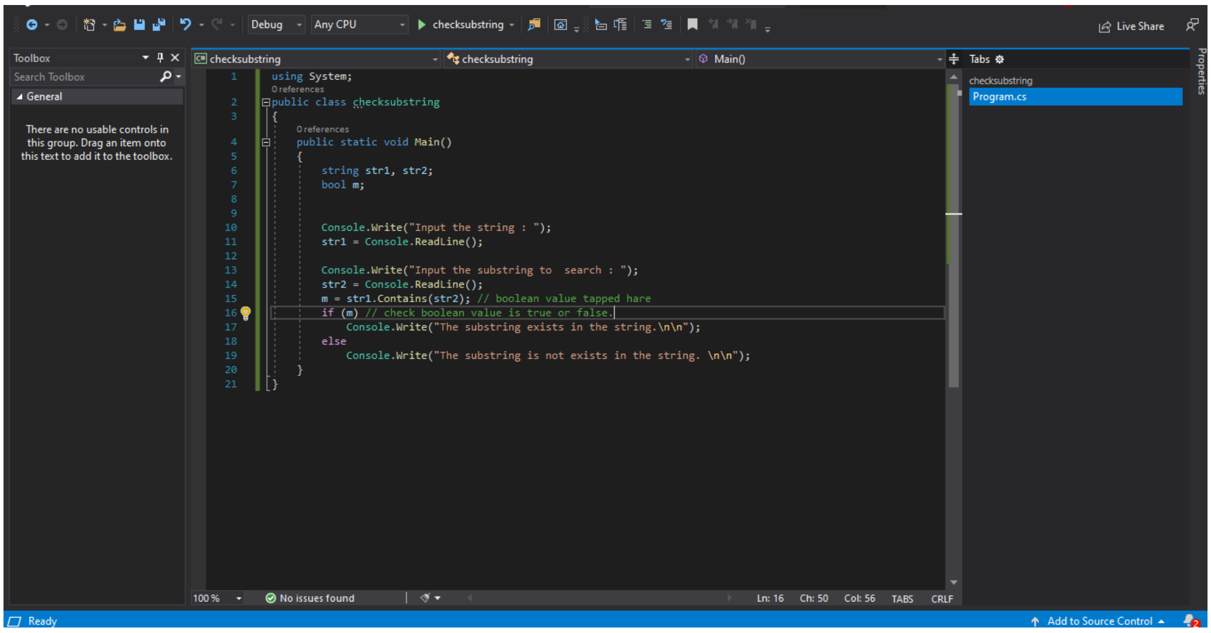
Output:



C:\Users\SANJAY LADDHA\source\repos\mostoccurings\mostoccurings\bin\Debug\netcoreapp3.1\mostoccurings.exe

```
Enter the string : sajal laddha
The Highest frequency of character 'a' is appearing for number of times : 4
```

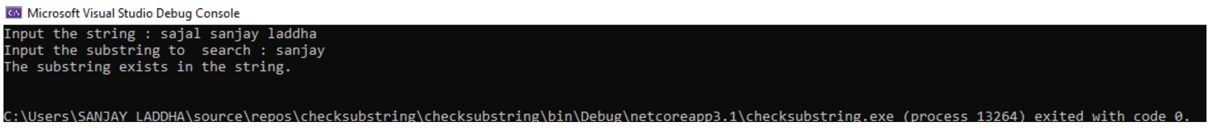
17] Write a programme to check whether a given substring is present in the given string:



```
using System;
0 references
public class checksubstring
{
    0 references
    public static void Main()
    {
        string str1, str2;
        bool m;


        Console.Write("Input the string : ");
        str1 = Console.ReadLine();

        Console.Write("Input the substring to  search : ");
        str2 = Console.ReadLine();
        m = str1.Contains(str2); // boolean value tapped hare
        if (m) // check boolean value is true or false.
            Console.Write("The substring exists in the string.\n\n");
        else
            Console.Write("The substring is not exists in the string. \n\n");
    }
}
```

Output:

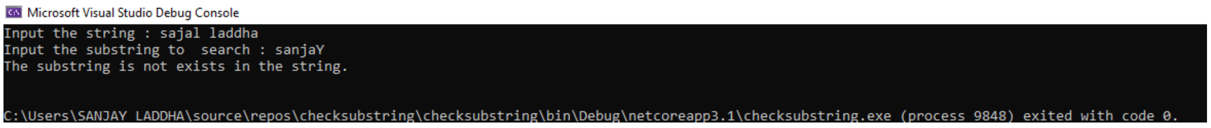
(substring exists)



Microsoft Visual Studio Debug Console

```
Input the string : sajal sanjay laddha
Input the substring to  search : sanjay
The substring exists in the string.

C:\Users\SANJAY LADDHA\source\repos\checksubstring\checksubstring\bin\Debug\netcoreapp3.1\checksubstring.exe (process 13264) exited with code 0.
```

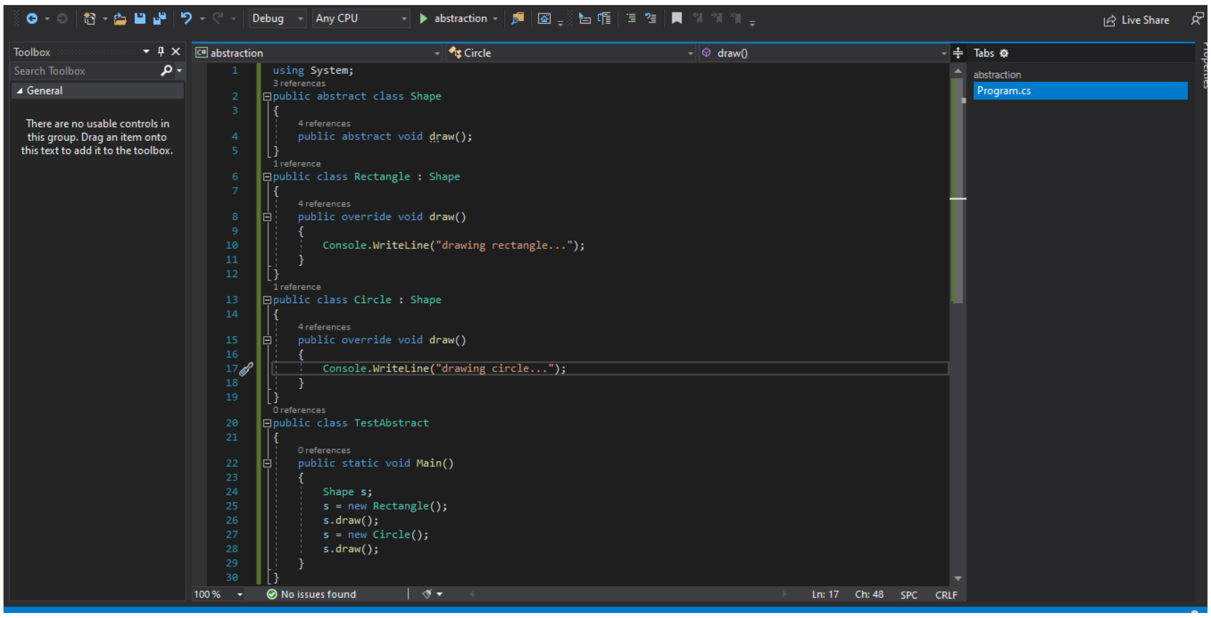
(substring doesn’t exists)



Microsoft Visual Studio Debug Console

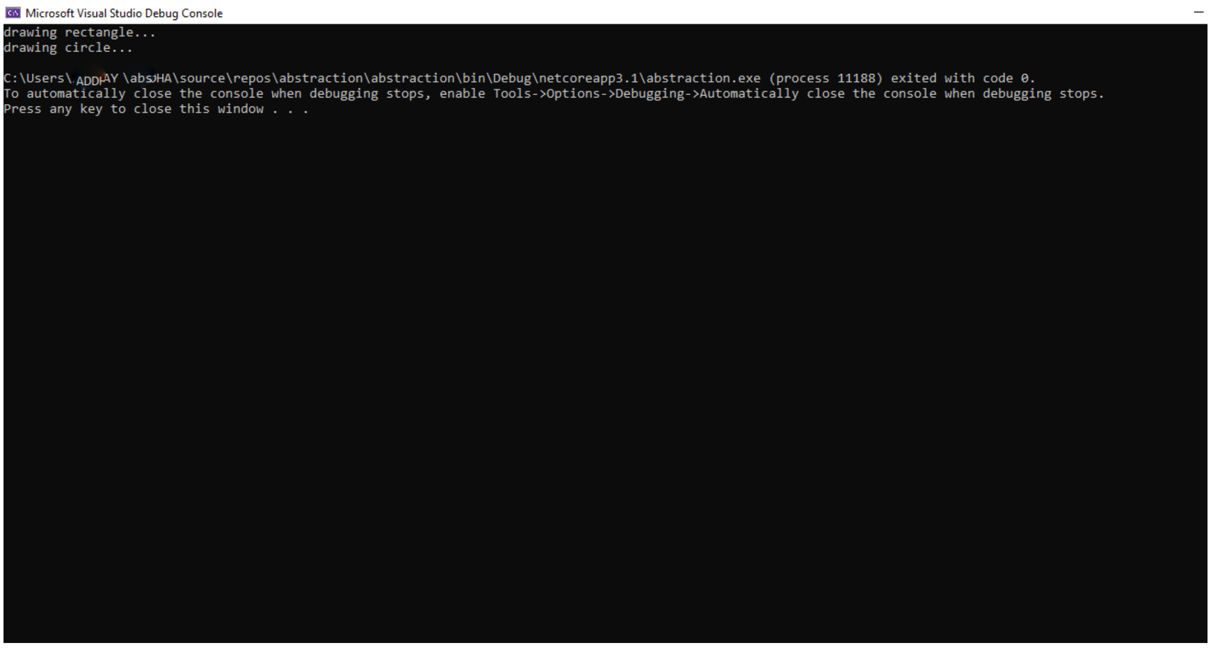
```
Input the string : sajal laddha
Input the substring to  search : sanjaY
The substring is not exists in the string.

C:\Users\SANJAY LADDHA\source\repos\checksubstring\checksubstring\bin\Debug\netcoreapp3.1\checksubstring.exe (process 9848) exited with code 0.
```

18] Write a programme for abstraction:



```
using System;
public abstract class Shape
{
    public abstract void draw();
}
public class Rectangle : Shape
{
    public override void draw()
    {
        Console.WriteLine("drawing rectangle...");
    }
}
public class Circle : Shape
{
    public override void draw()
    {
        Console.WriteLine("drawing circle...");
    }
}
public class TestAbstract
{
    public static void Main()
    {
        Shape s;
        s = new Rectangle();
        s.draw();
        s = new Circle();
        s.draw();
    }
}
```

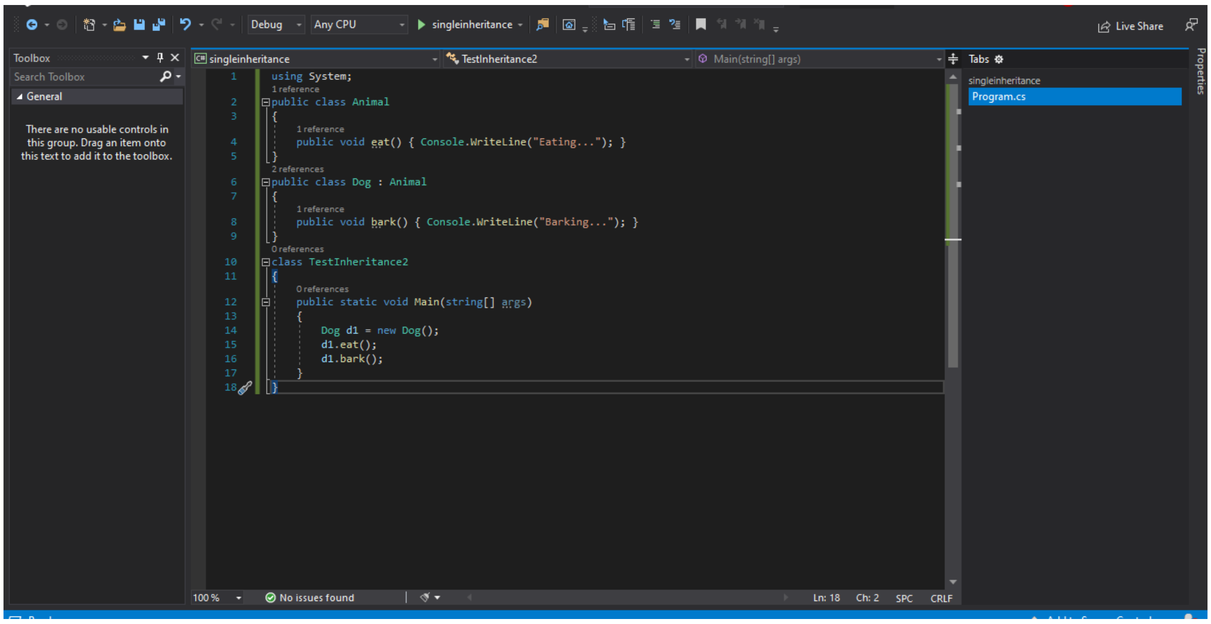
Output:



Microsoft Visual Studio Debug Console

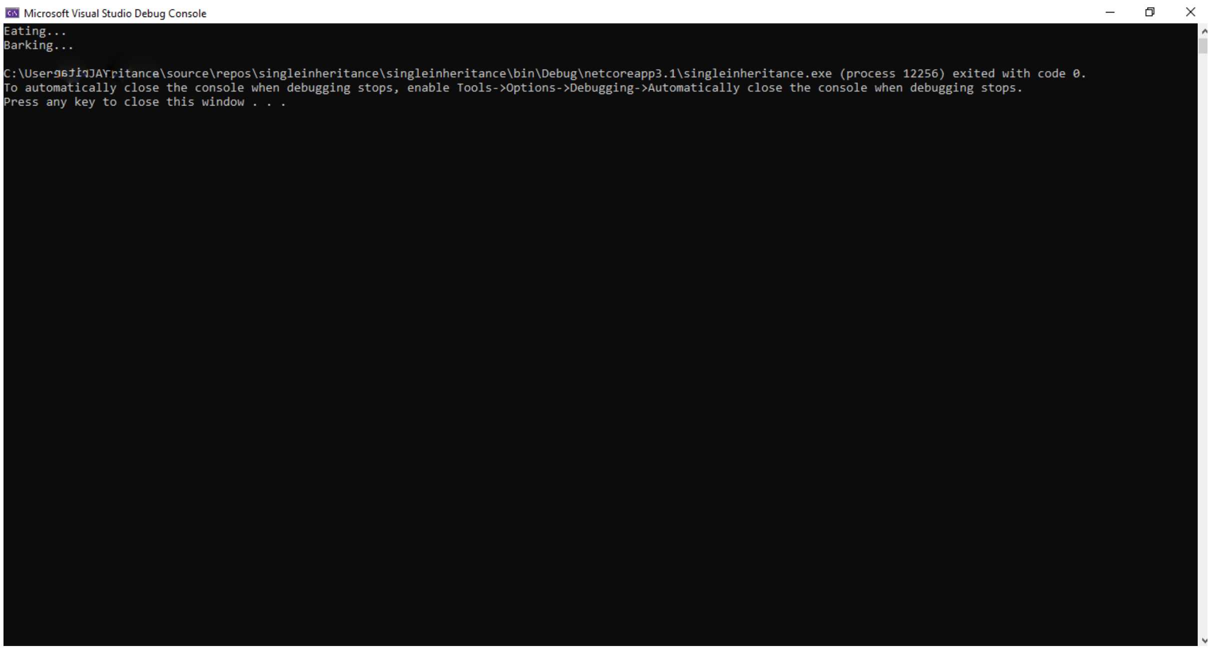
```
drawing rectangle...
drawing circle...

C:\Users\ADDIAY \absUHA\source\repos\abstraction\abstraction\bin\Debug\netcoreapp3.1\abstraction.exe (process 11188) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

19] Write a programme for single inheritance:



```
using System;
1 reference
public class Animal
{
    1 reference
    public void eat() { Console.WriteLine("Eating..."); }
}
2 references
public class Dog : Animal
{
    1 reference
    public void bark() { Console.WriteLine("Barking..."); }
}
0 references
class TestInheritance2
{
    0 references
    public static void Main(string[] args)
    {
        Dog d1 = new Dog();
        d1.eat();
        d1.bark();
    }
}
```

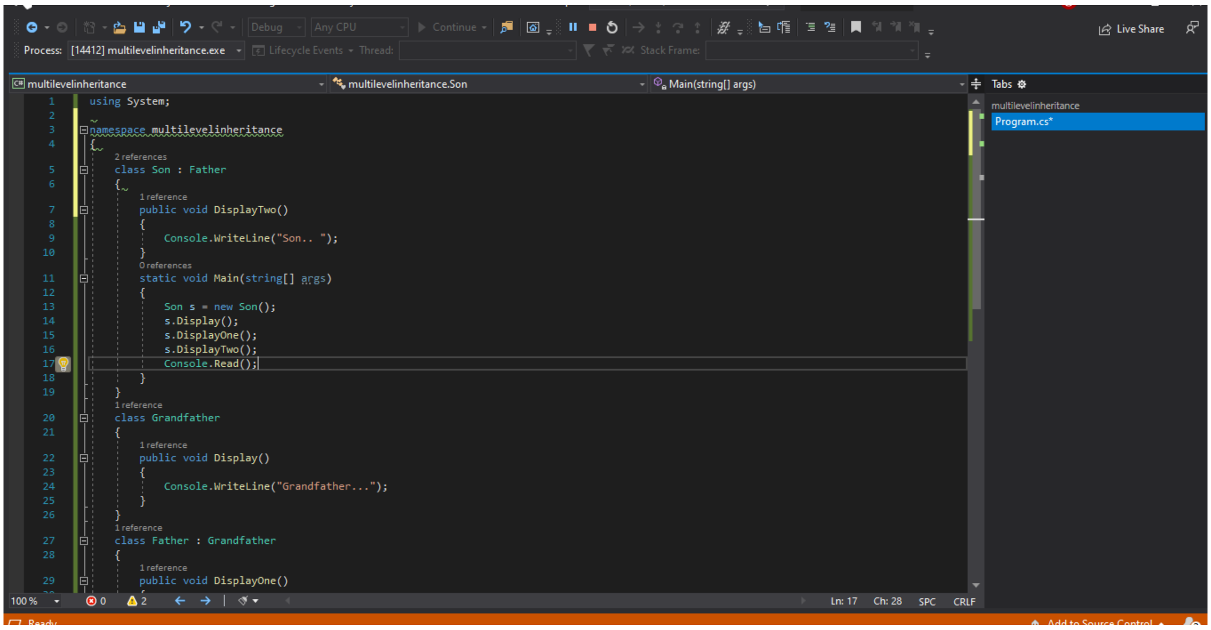
Output:



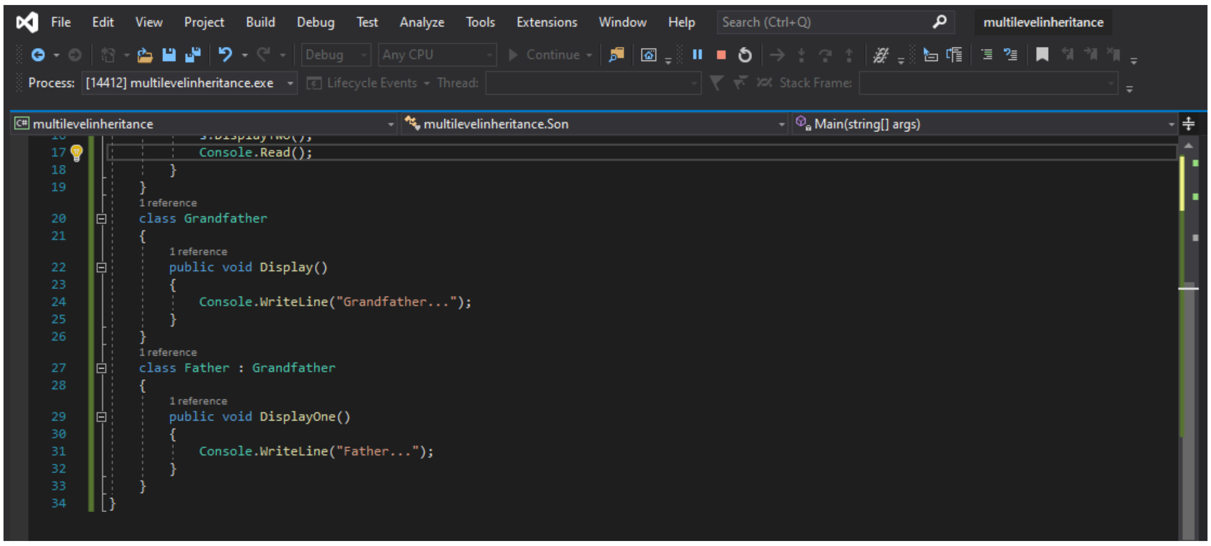
Microsoft Visual Studio Debug Console

```
Eating...
Barking...

C:\User[illegible]ritance\source\repos\singleinheritance\singleinheritance\bin\Debug\netcoreapp3.1\singleinheritance.exe (process 12256) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

20] Write a programme for multi level inheritance:

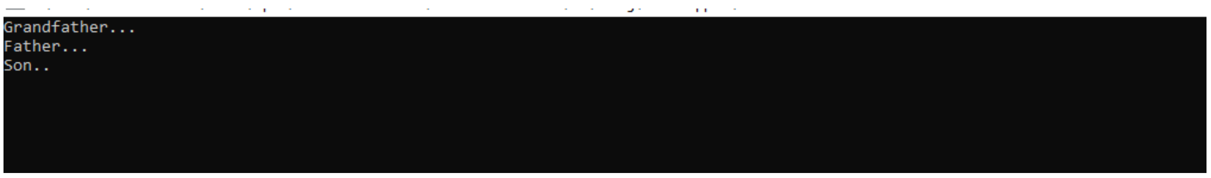


```
using System;

namespace multilevelinheritance
{
    2 references
    class Son : Father
    {
        1 reference
        public void DisplayTwo()
        {
            Console.WriteLine("Son.. ");
        }
        0 references
        static void Main(string[] args)
        {
            Son s = new Son();
            s.Display();
            s.DisplayOne();
            s.DisplayTwo();
            Console.Read();
        }
    }
    1 reference
    class Grandfather
    {
        1 reference
        public void Display()
        {
            Console.WriteLine("Grandfather...");
        }
    }
    1 reference
    class Father : Grandfather
    {
        1 reference
        public void DisplayOne()
```



```
            Console.Read();
        }
    }
    1 reference
    class Grandfather
    {
        1 reference
        public void Display()
        {
            Console.WriteLine("Grandfather...");
        }
    }
    1 reference
    class Father : Grandfather
    {
        1 reference
        public void DisplayOne()
        {
            Console.WriteLine("Father...");
        }
    }
}
```

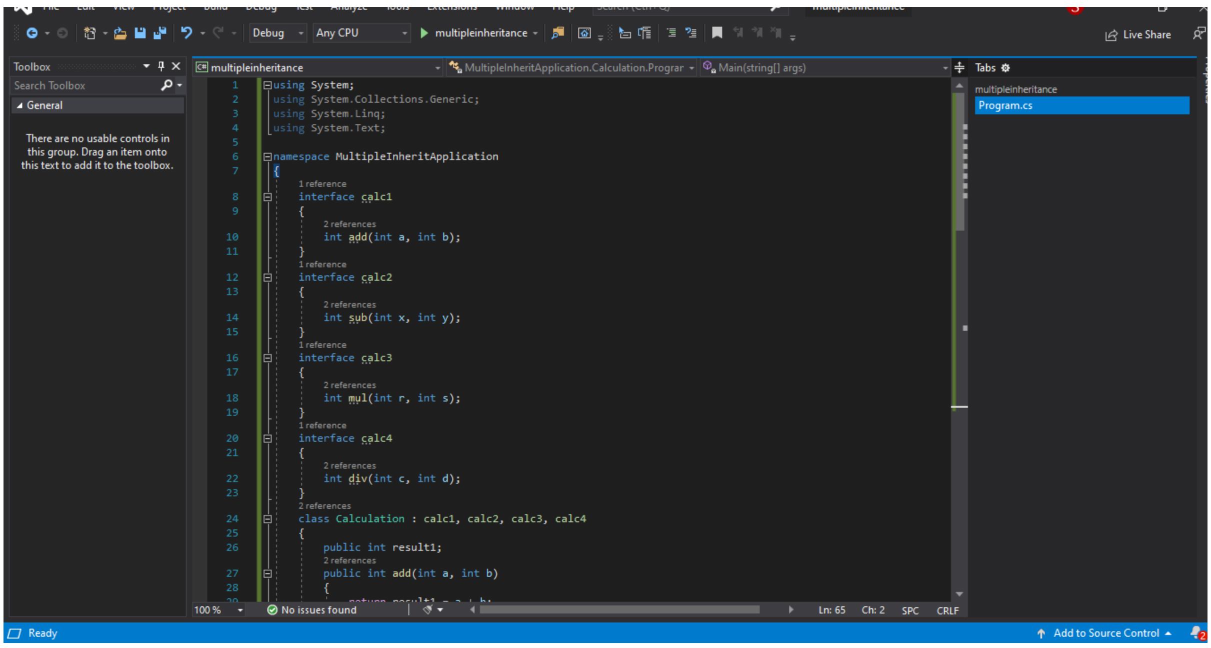
Output:



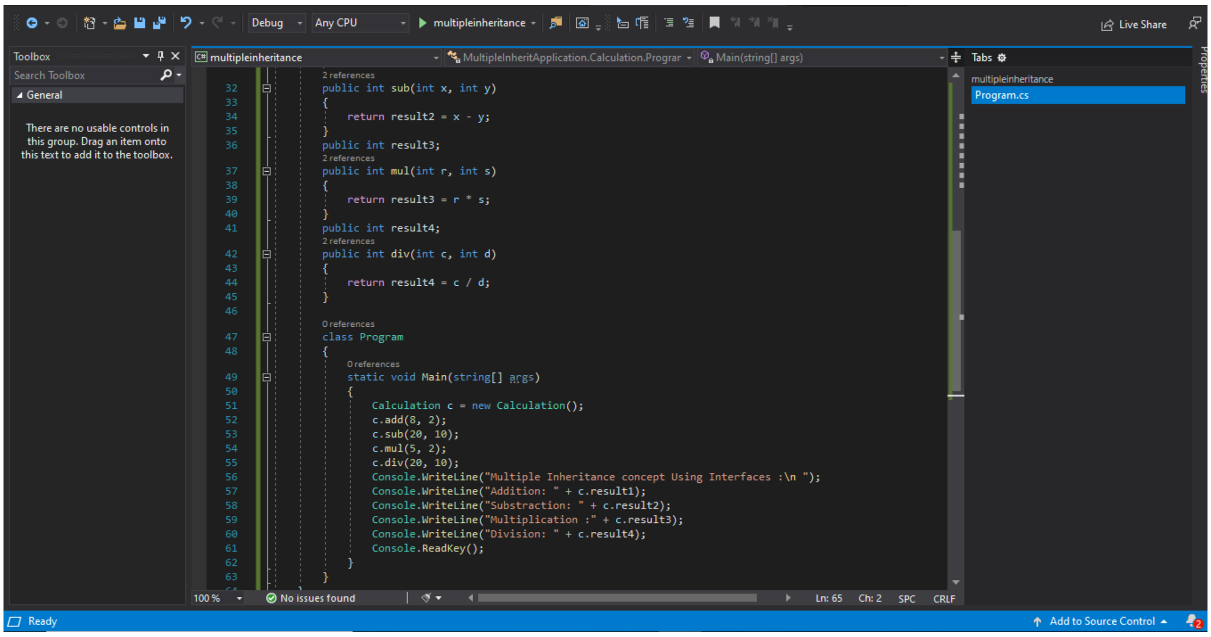
```
Grandfather...
Father...
Son..
```

21] Write a programme for multiple inheritance:

(Multiple inheritance runs with the help of interface not class)

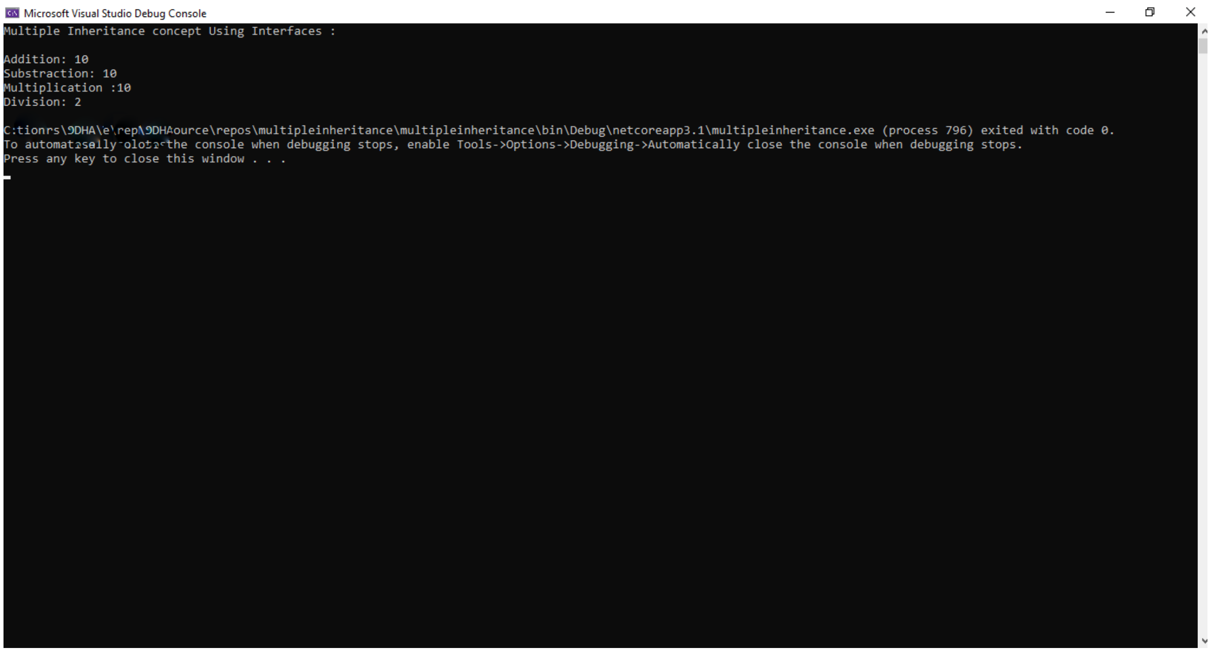


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace MultipleInheritApplication
{
    interface calc1
    {
        int add(int a, int b);
    }
    interface calc2
    {
        int sub(int x, int y);
    }
    interface calc3
    {
        int mul(int r, int s);
    }
    interface calc4
    {
        int div(int c, int d);
    }
    class Calculation : calc1, calc2, calc3, calc4
    {
        public int result1;
        public int add(int a, int b)
        {
```



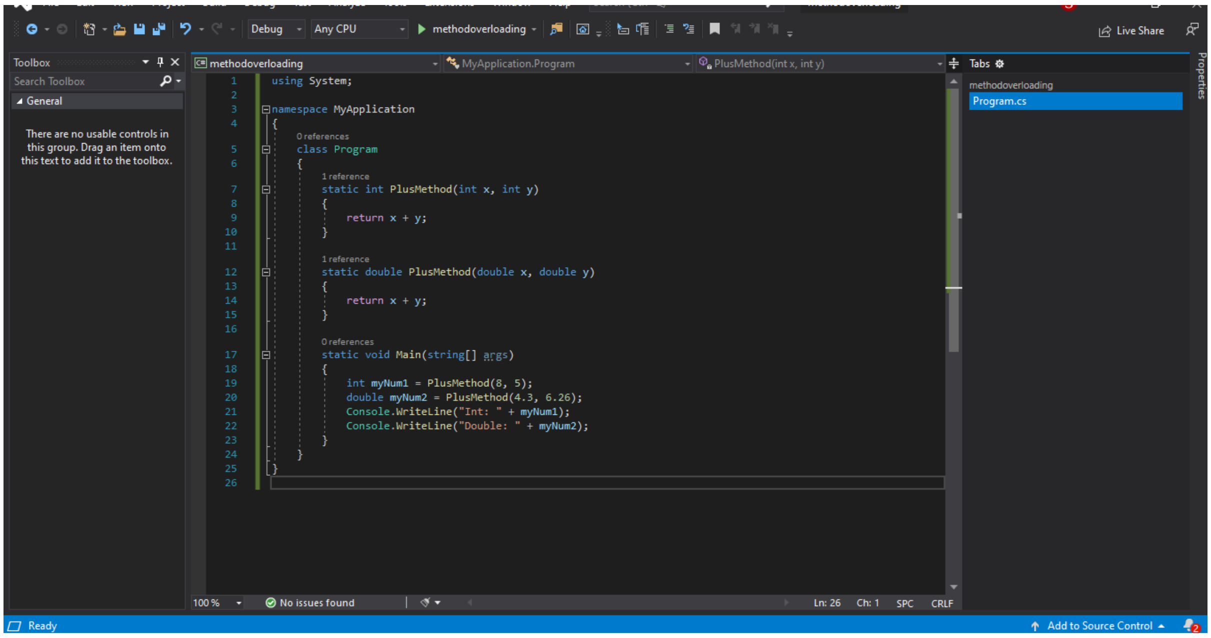
```
        public int sub(int x, int y)
        {
            return result2 = x - y;
        }
        public int result3;
        public int mul(int r, int s)
        {
            return result3 = r * s;
        }
        public int result4;
        public int div(int c, int d)
        {
            return result4 = c / d;
        }

        class Program
        {
            static void Main(string[] args)
            {
                Calculation c = new Calculation();
                c.add(8, 2);
                c.sub(20, 10);
                c.mul(5, 2);
                c.div(20, 10);
                Console.WriteLine("Multiple Inheritance concept Using Interfaces :\n ");
                Console.WriteLine("Addition: " + c.result1);
                Console.WriteLine("Substraction: " + c.result2);
                Console.WriteLine("Multiplication :" + c.result3);
                Console.WriteLine("Division: " + c.result4);
                Console.ReadKey();
            }
        }
```

Output:



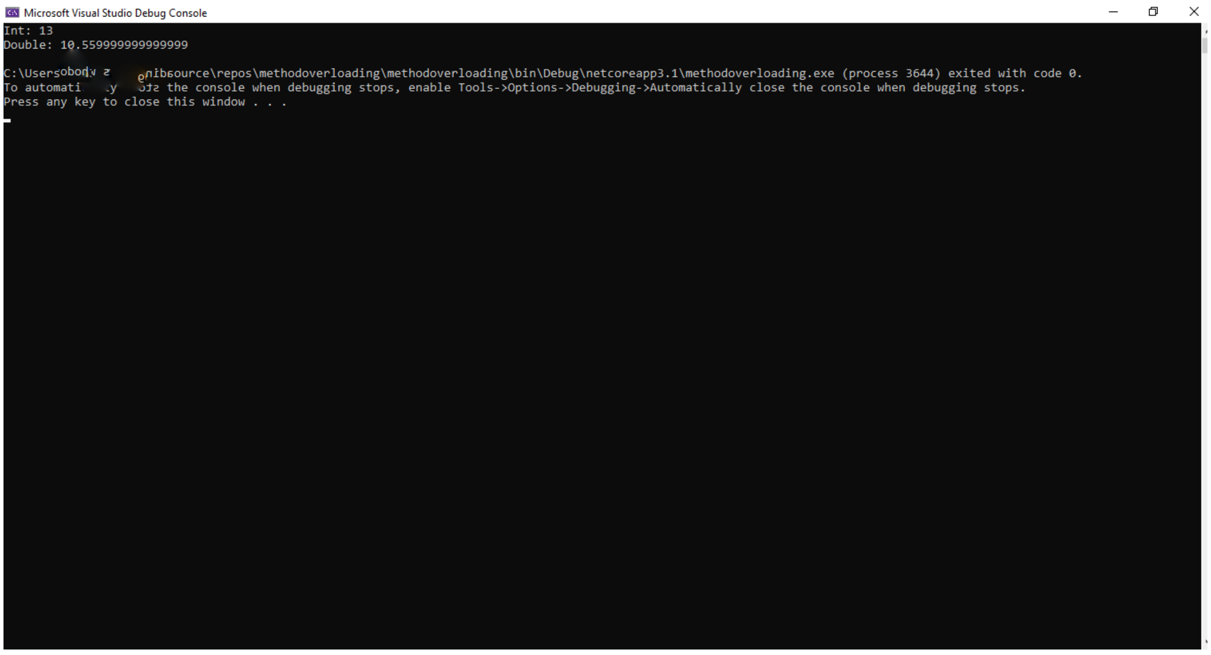
```
Multiple Inheritance concept Using Interfaces :

Addition: 10
Substraction: 10
Multiplication :10
Division: 2

C:tionrs\9DHA\e\rep\9DHAource\repos\multipleinheritance\multipleinheritance\bin\Debug\netcoreapp3.1\multipleinheritance.exe (process 796) exited with code 0.
To automatasally olota the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

22] Write a programme for method overloading:



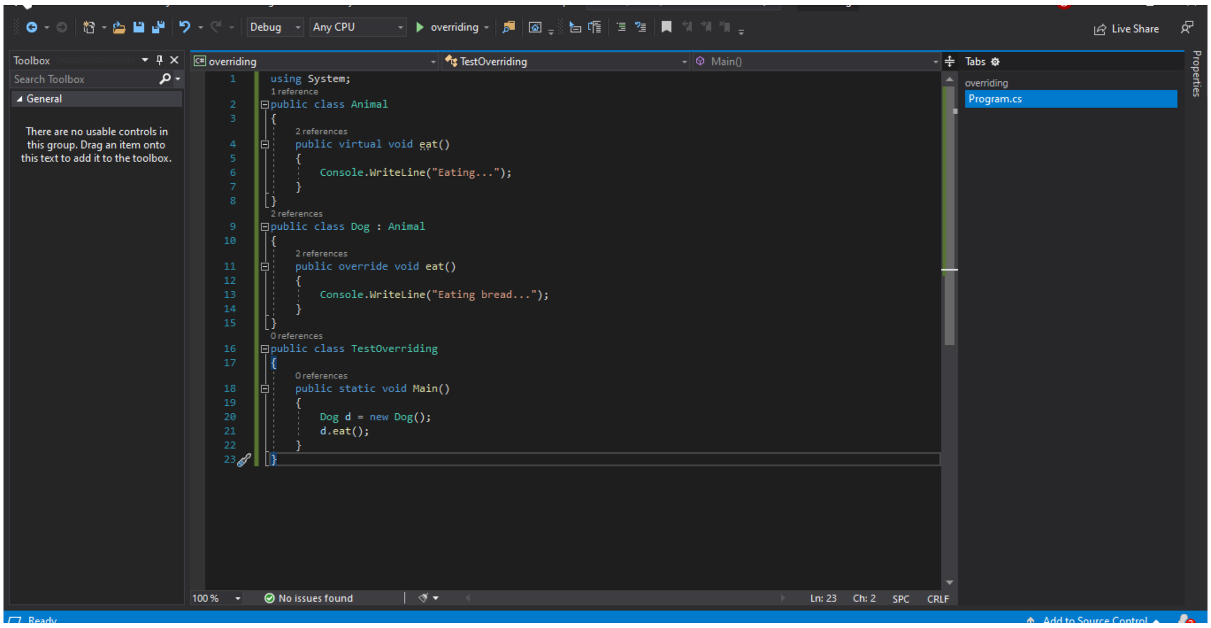
```
using System;

namespace MyApplication
{
    class Program
    {
        static int PlusMethod(int x, int y)
        {
            return x + y;
        }

        static double PlusMethod(double x, double y)
        {
            return x + y;
        }

        static void Main(string[] args)
        {
            int myNum1 = PlusMethod(8, 5);
            double myNum2 = PlusMethod(4.3, 6.26);
            Console.WriteLine("Int: " + myNum1);
            Console.WriteLine("Double: " + myNum2);
        }
    }
}
```

Output:



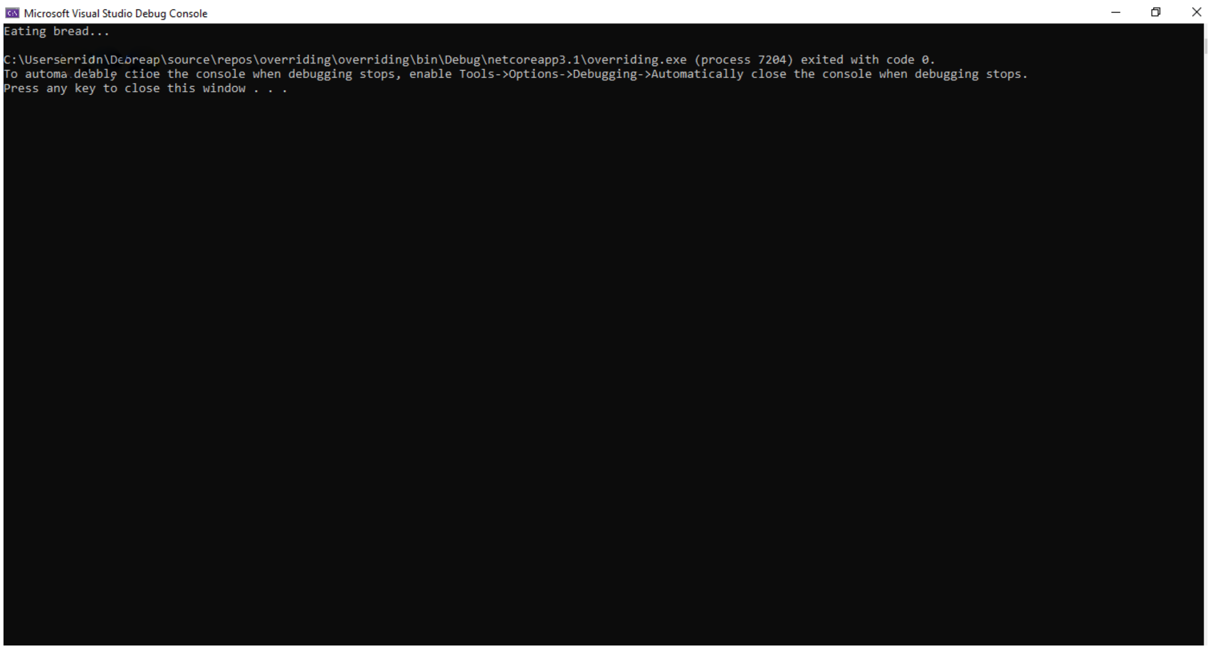
```
Int: 13
Double: 10.559999999999999

C:\Users[redacted]source\repos\methodoverloading\methodoverloading\bin\Debug\netcoreapp3.1\methodoverloading.exe (process 3644) exited with code 0.
To automati[redacted] the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

23] Write a programme for method overriding:



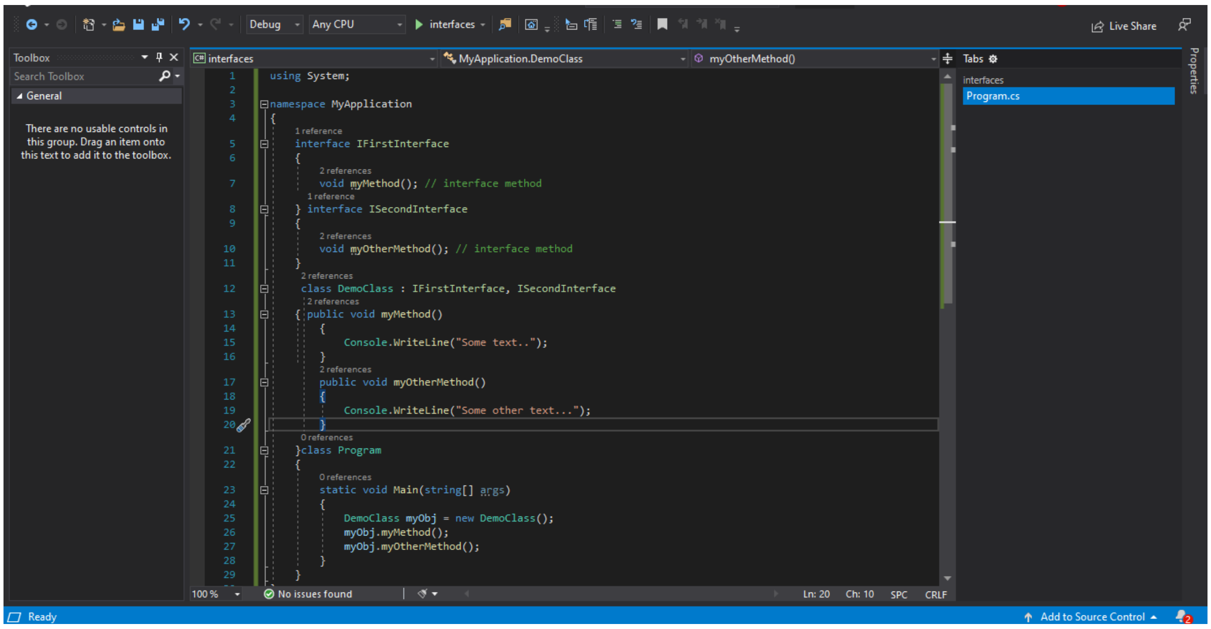
```
using System;
public class Animal
{
    public virtual void eat()
    {
        Console.WriteLine("Eating...");
    }
}
public class Dog : Animal
{
    public override void eat()
    {
        Console.WriteLine("Eating bread...");
    }
}
public class TestOverriding
{
    public static void Main()
    {
        Dog d = new Dog();
        d.eat();
    }
}
```

Output:



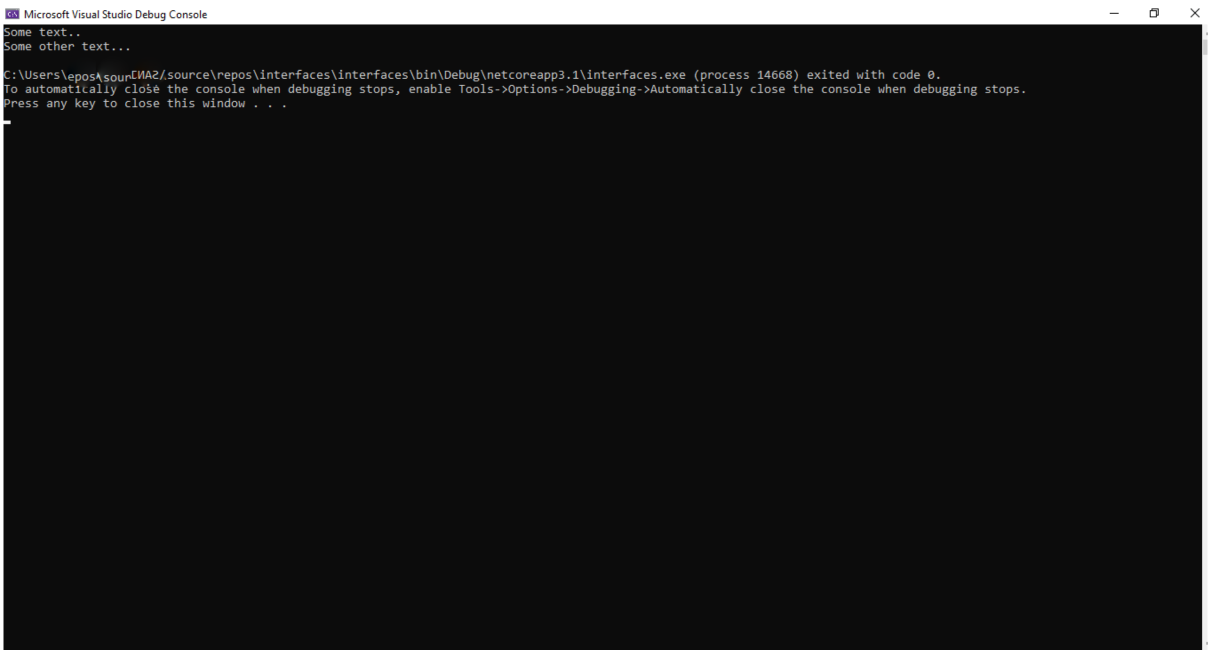
```
Eating bread...

C:\Userserridn\Deoreap\source\repos\overriding\overriding\bin\Debug\netcoreapp3.1\overriding.exe (process 7204) exited with code 0.
To automa deable ctioe the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

24] Write a programme for interface:



```csharp
using System;

namespace MyApplication
{
    interface IFirstInterface
    {
        void myMethod(); // interface method
    } interface ISecondInterface
    {
        void myOtherMethod(); // interface method
    }
     class DemoClass : IFirstInterface, ISecondInterface
    { public void myMethod()
        {
            Console.WriteLine("Some text..");
        }
        public void myOtherMethod()
        {
            Console.WriteLine("Some other text...");
        }
    }class Program
    {
        static void Main(string[] args)
        {
            DemoClass myObj = new DemoClass();
            myObj.myMethod();
            myObj.myOtherMethod();
        }
    }
```

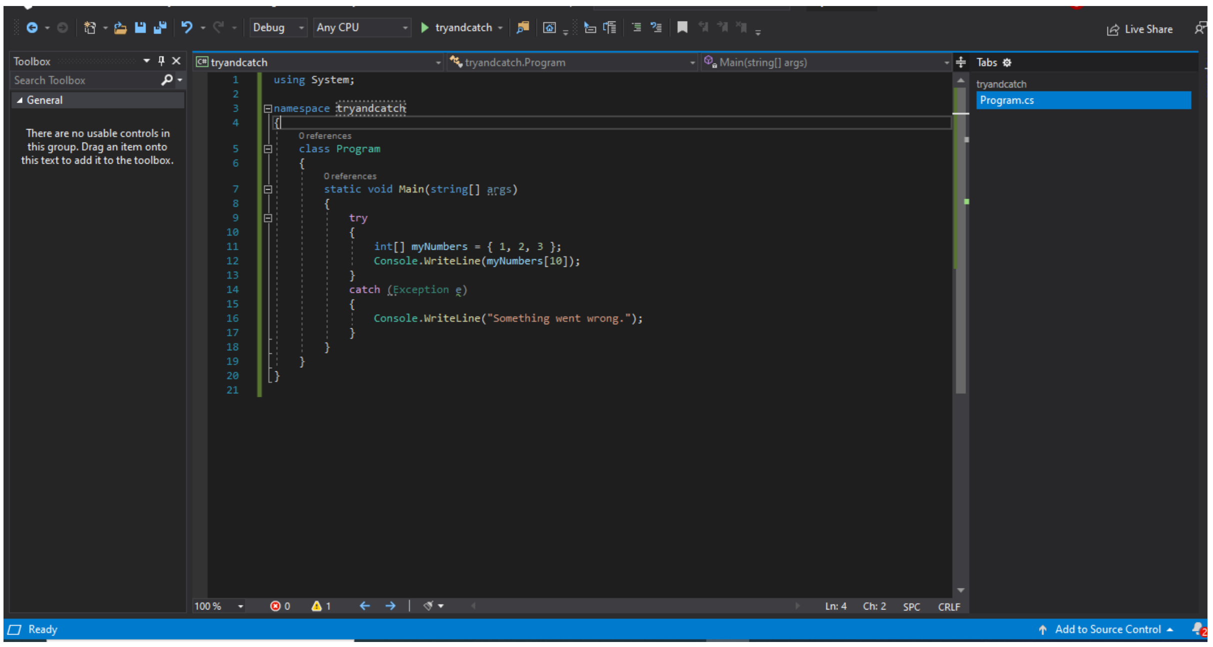
Output:



Microsoft Visual Studio Debug Console

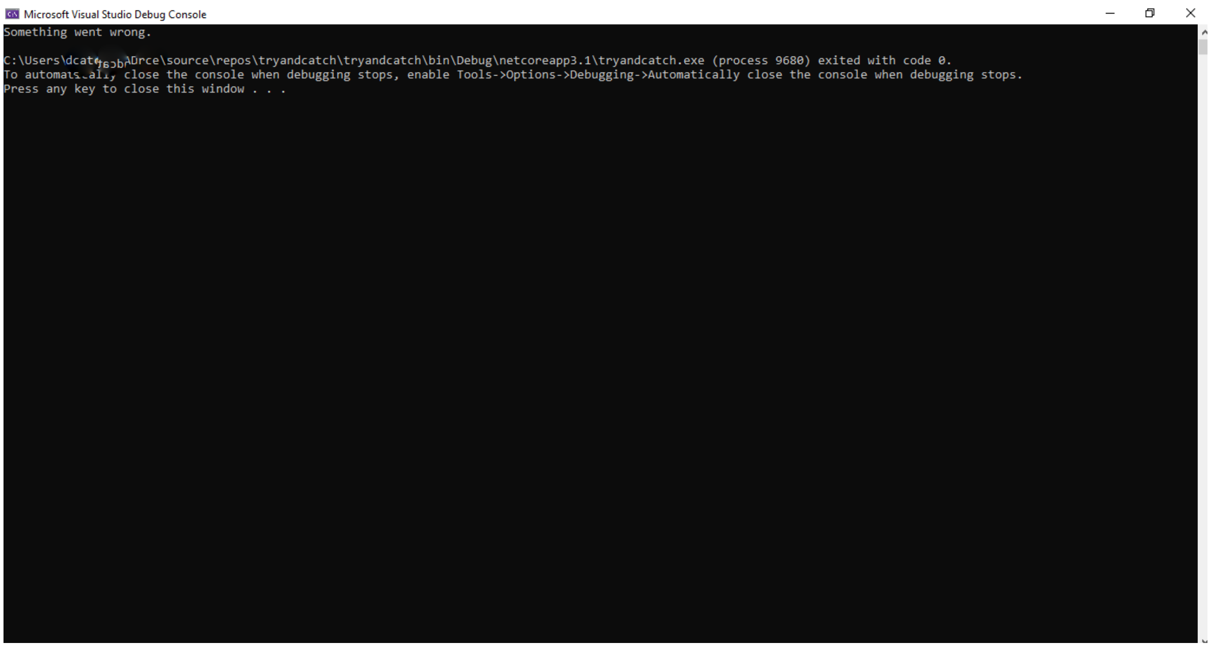
```
Some text..
Some other text...

C:\Users\epos\sourСИА2/.source\repos\interfaces\interfaces\bin\Debug\netcoreapp3.1\interfaces.exe (process 14668) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

25] Write a programme for exception handling through try and catch:



```
using System;

namespace tryandcatch
{
    class Program
    {
        static void Main(string[] args)
        {
            try
            {
                int[] myNumbers = { 1, 2, 3 };
                Console.WriteLine(myNumbers[10]);
            }
            catch (Exception e)
            {
                Console.WriteLine("Something went wrong.");
            }
        }
    }
}
```

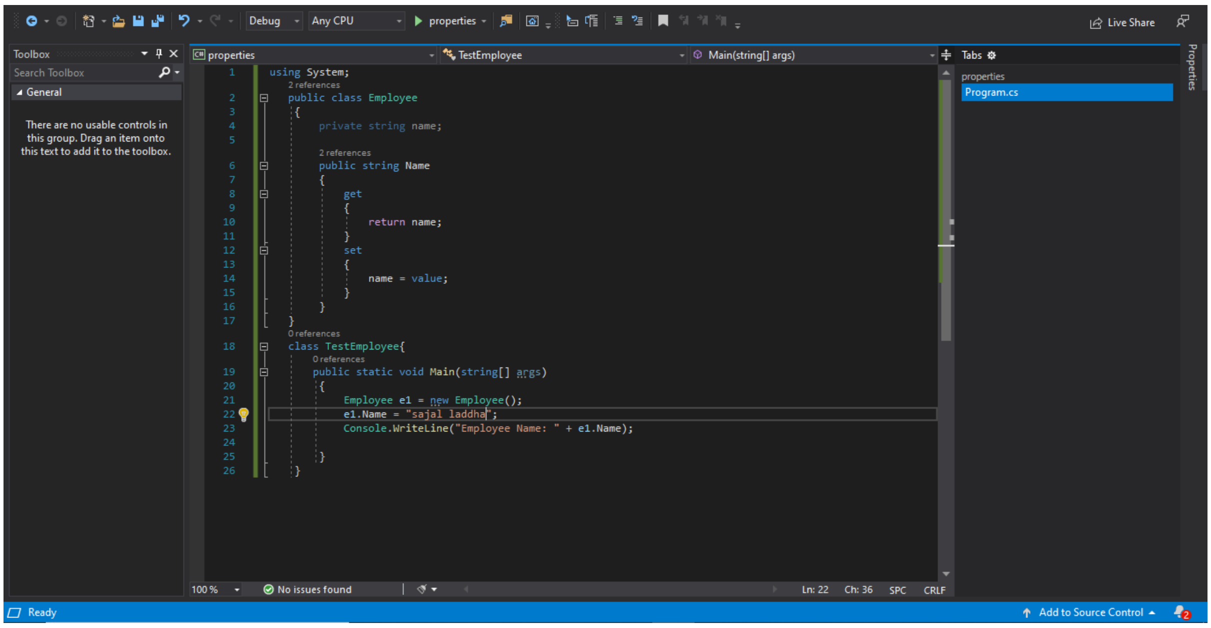
Output:



Microsoft Visual Studio Debug Console

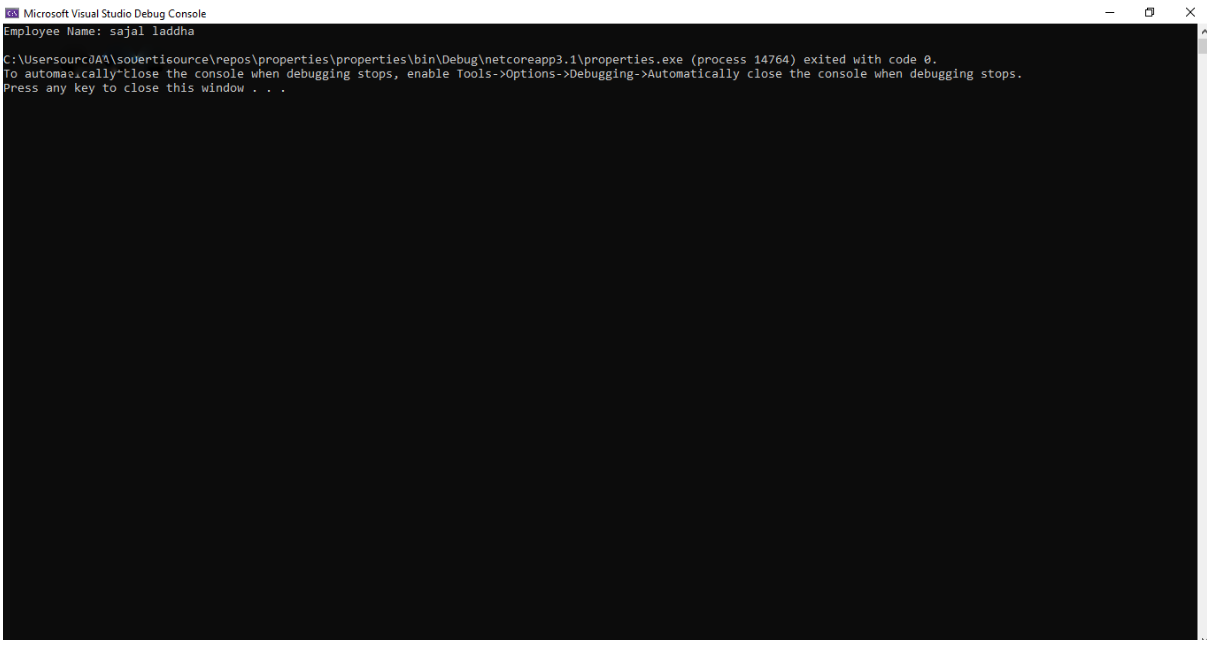
```
Something went wrong.

C:\Users\dcate[illegible]\source\repos\tryandcatch\tryandcatch\bin\Debug\netcoreapp3.1\tryandcatch.exe (process 9680) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

26] Write a programme for properties.



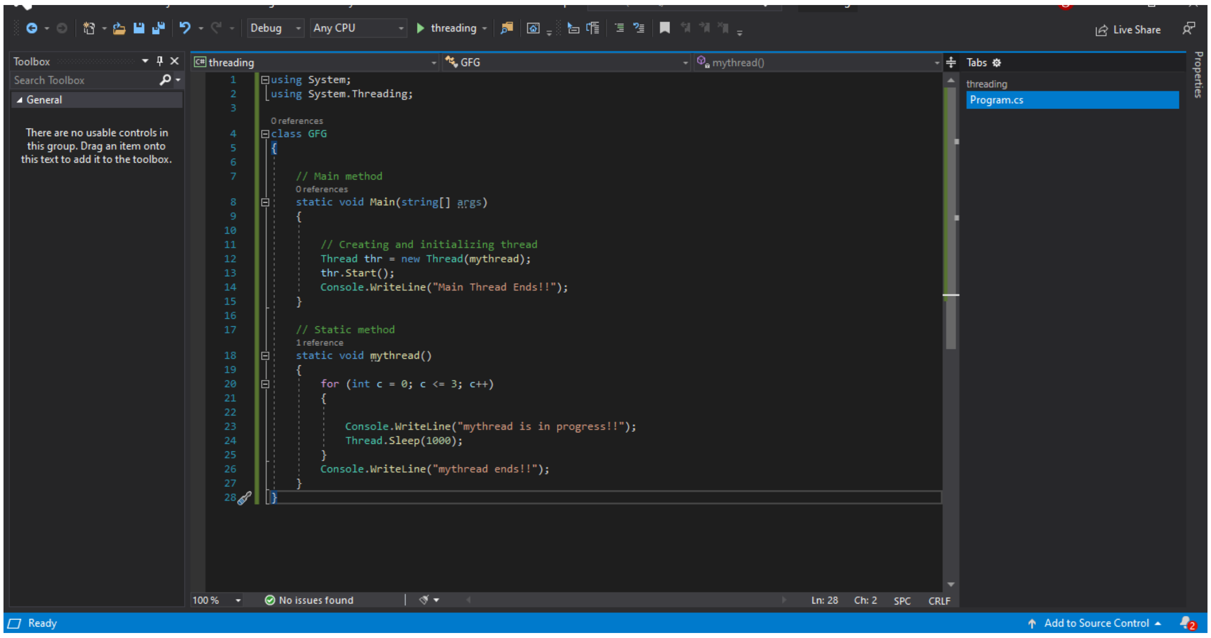
```
using System;
public class Employee
{
    private string name;

    public string Name
    {
        get
        {
            return name;
        }
        set
        {
            name = value;
        }
    }
}
class TestEmployee{
    public static void Main(string[] args)
    {
        Employee e1 = new Employee();
        e1.Name = "sajal laddha";
        Console.WriteLine("Employee Name: " + e1.Name);

    }
}
```

Output:



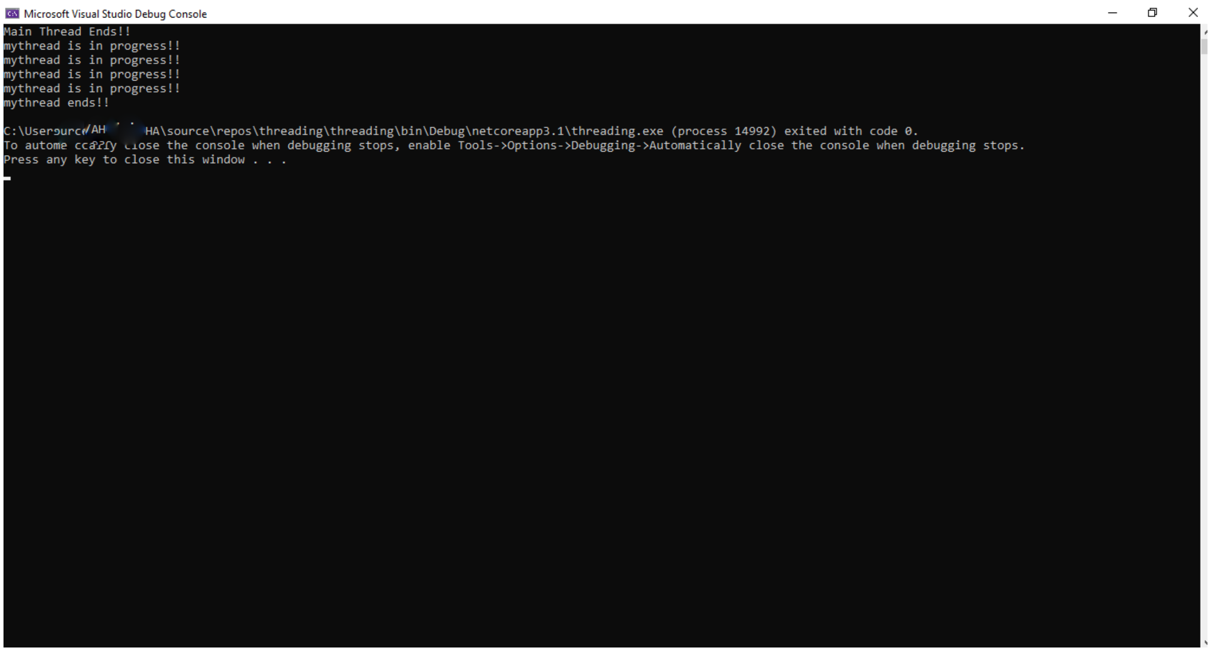
```
Employee Name: sajal laddha

C:\UsersourcJA‘\souertisource\repos\properties\properties\bin\Debug\netcoreapp3.1\properties.exe (process 14764) exited with code 0.
To automaeically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

27] Write a programme for threading.



```
using System;
using System.Threading;

class GFG
{

    // Main method
    static void Main(string[] args)
    {

        // Creating and initializing thread
        Thread thr = new Thread(mythread);
        thr.Start();
        Console.WriteLine("Main Thread Ends!!");
    }

    // Static method
    static void mythread()
    {
        for (int c = 0; c <= 3; c++)
        {

            Console.WriteLine("mythread is in progress!!");
            Thread.Sleep(1000);
        }
        Console.WriteLine("mythread ends!!");
    }
}
```

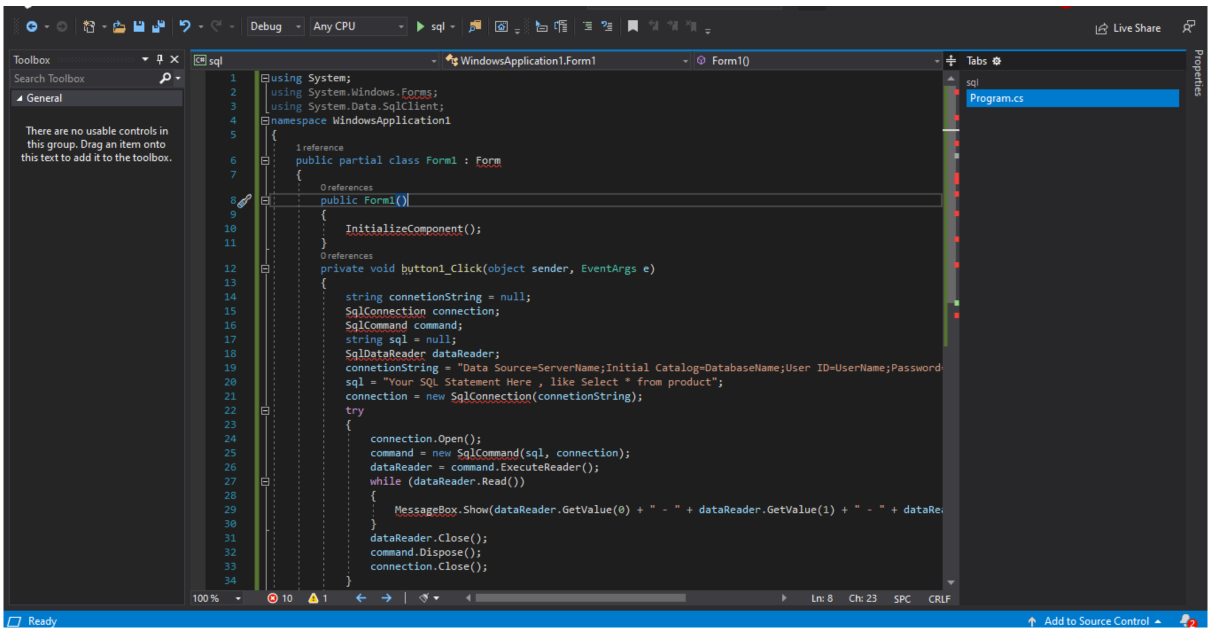
Output:



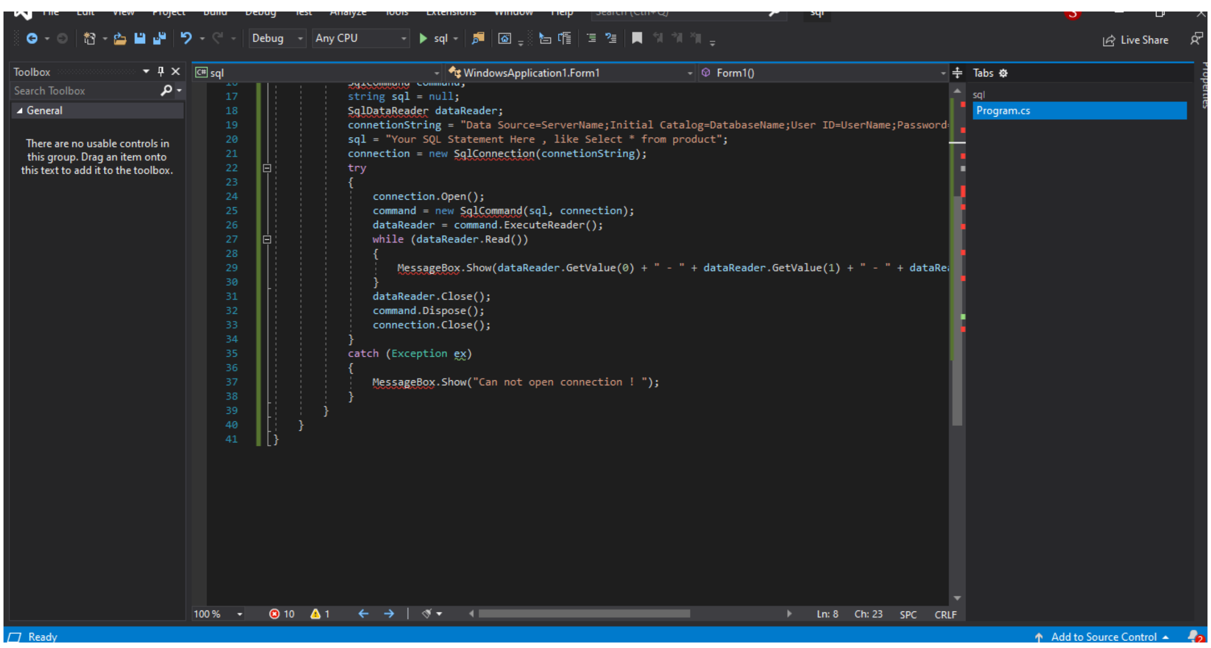
Microsoft Visual Studio Debug Console

```
Main Thread Ends!!
mythread is in progress!!
mythread is in progress!!
mythread is in progress!!
mythread is in progress!!
mythread ends!!

C:\Userource\AH[redacted]HA\source\repos\threading\threading\bin\Debug\netcoreapp3.1\threading.exe (process 14992) exited with code 0.
To autome cca?ly close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

28] Write a programme to access data from database using ADO.net.

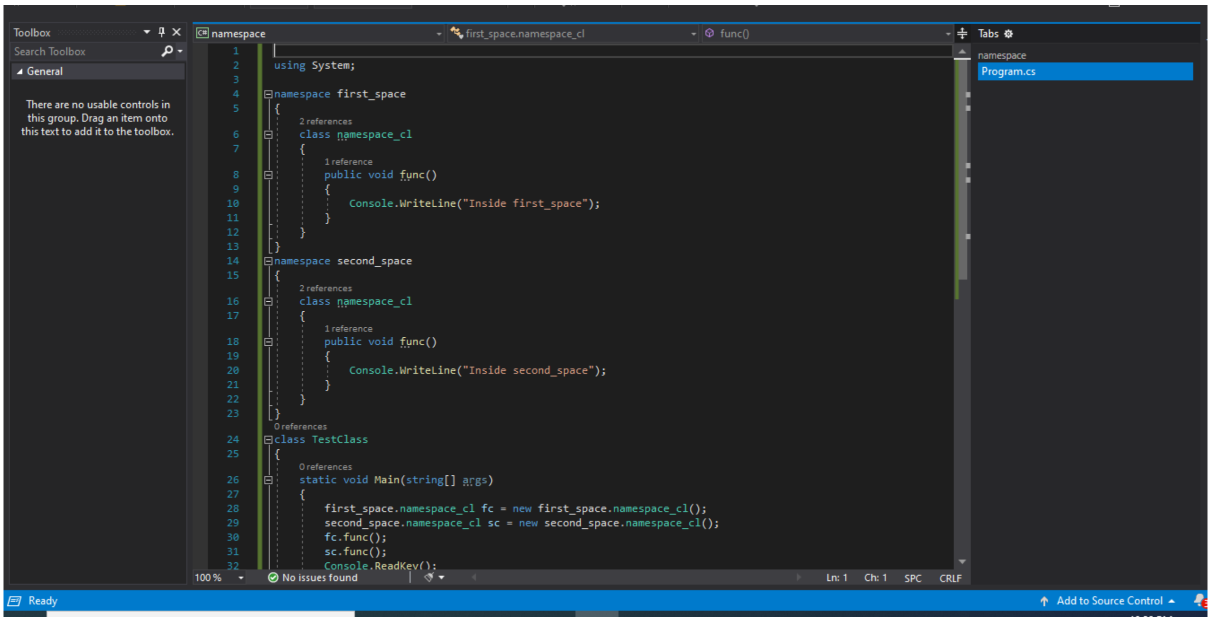


```
using System;
using System.Windows.Forms;
using System.Data.SqlClient;
namespace WindowsApplication1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }
        private void button1_Click(object sender, EventArgs e)
        {
            string connetionString = null;
            SqlConnection connection;
            SqlCommand command;
            string sql = null;
            SqlDataReader dataReader;
            connetionString = "Data Source=ServerName;Initial Catalog=DatabaseName;User ID=UserName;Password
            sql = "Your SQL Statement Here , like Select * from product";
            connection = new SqlConnection(connetionString);
            try
            {
                connection.Open();
                command = new SqlCommand(sql, connection);
                dataReader = command.ExecuteReader();
                while (dataReader.Read())
                {
                    MessageBox.Show(dataReader.GetValue(0) + " - " + dataReader.GetValue(1) + " - " + dataRe
                }
                dataReader.Close();
                command.Dispose();
                connection.Close();
            }
```



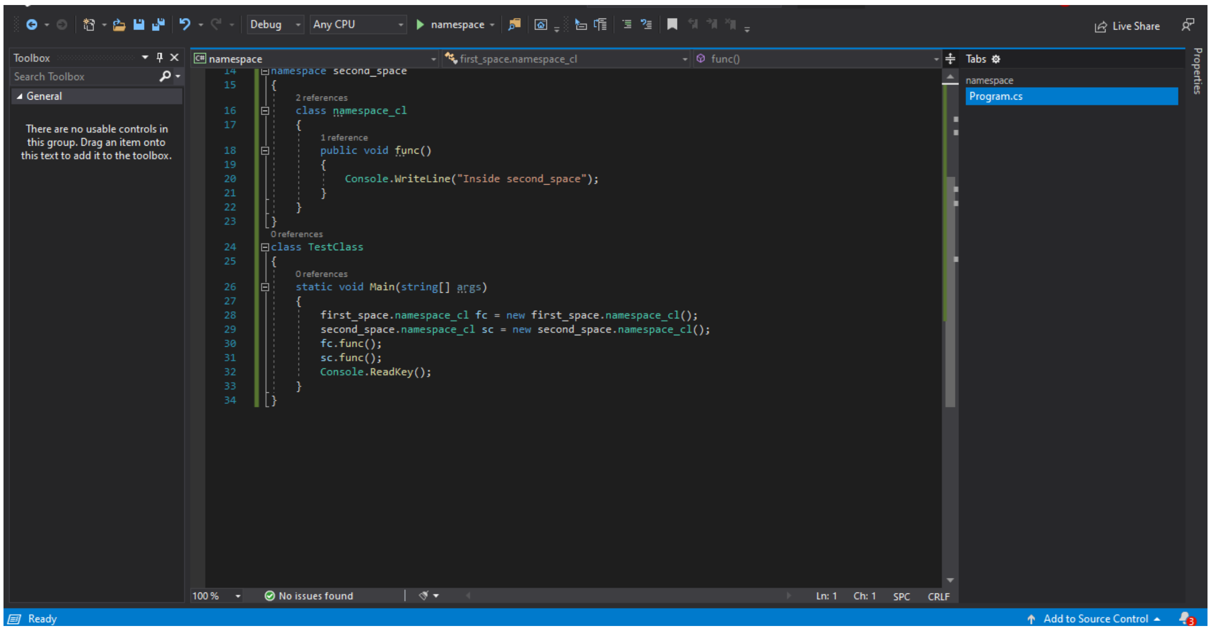
```
            string sql = null;
            SqlDataReader dataReader;
            connetionString = "Data Source=ServerName;Initial Catalog=DatabaseName;User ID=UserName;Password
            sql = "Your SQL Statement Here , like Select * from product";
            connection = new SqlConnection(connetionString);
            try
            {
                connection.Open();
                command = new SqlCommand(sql, connection);
                dataReader = command.ExecuteReader();
                while (dataReader.Read())
                {
                    MessageBox.Show(dataReader.GetValue(0) + " - " + dataReader.GetValue(1) + " - " + dataRe
                }
                dataReader.Close();
                command.Dispose();
                connection.Close();
            }
            catch (Exception ex)
            {
                MessageBox.Show("Can not open connection ! ");
            }
        }
    }
}
```

29] Write a programme using namespace.



There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

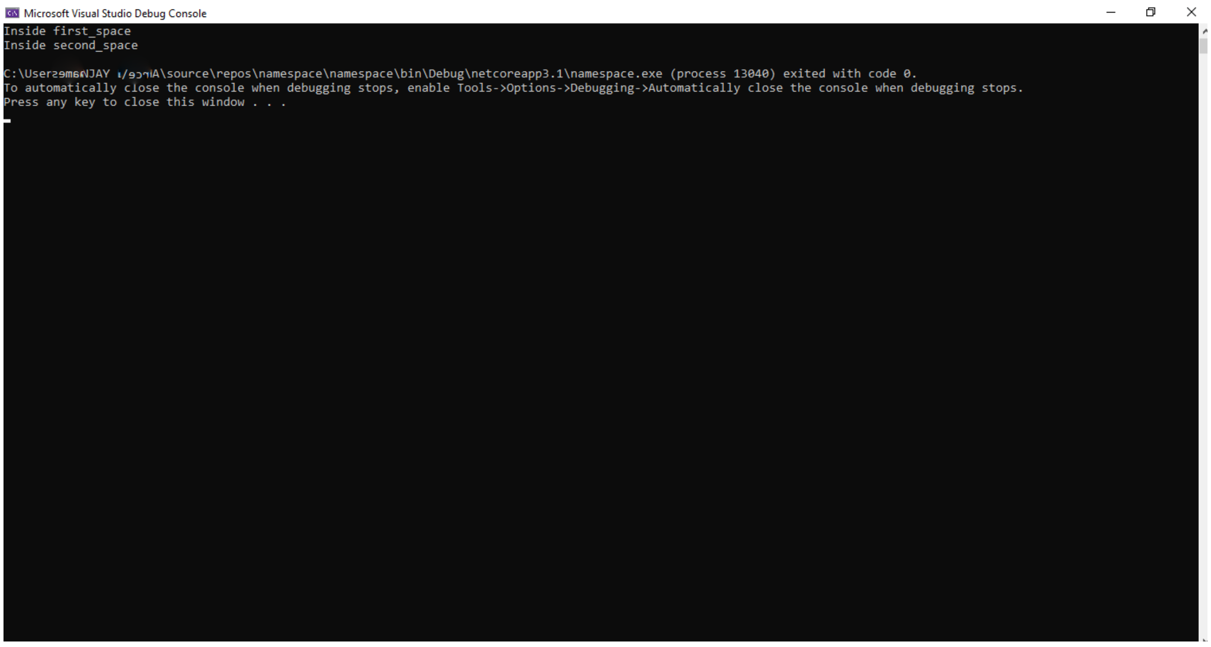
```
using System;

namespace first_space
{
    2 references
    class namespace_cl
    {
        1 reference
        public void func()
        {
            Console.WriteLine("Inside first_space");
        }
    }
}
namespace second_space
{
    2 references
    class namespace_cl
    {
        1 reference
        public void func()
        {
            Console.WriteLine("Inside second_space");
        }
    }
}
0 references
class TestClass
{
    0 references
    static void Main(string[] args)
    {
        first_space.namespace_cl fc = new first_space.namespace_cl();
        second_space.namespace_cl sc = new second_space.namespace_cl();
        fc.func();
        sc.func();
        Console.ReadKey();
```



There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.

```
namespace second_space
{
    2 references
    class namespace_cl
    {
        1 reference
        public void func()
        {
            Console.WriteLine("Inside second_space");
        }
    }
}
0 references
class TestClass
{
    0 references
    static void Main(string[] args)
    {
        first_space.namespace_cl fc = new first_space.namespace_cl();
        second_space.namespace_cl sc = new second_space.namespace_cl();
        fc.func();
        sc.func();
        Console.ReadKey();
    }
}
```

Output:



```
Inside first_space
Inside second_space

C:\UserƨmaNJAY ı/ɘɔɿA\source\repos\namespace\namespace\bin\Debug\netcoreapp3.1\namespace.exe (process 13040) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```