

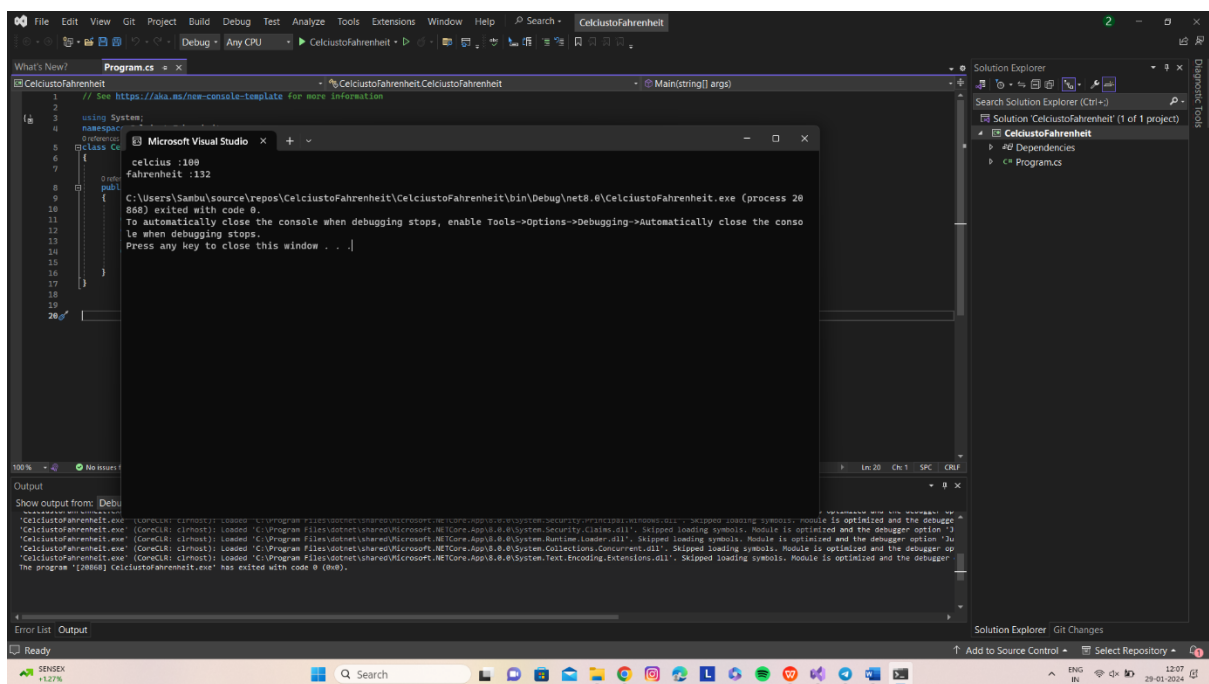
ID:2100030408

NAME:SAMBASIVARAO

## 1.CELCIUS TO FAHRENHEIT

```
using System;
namespace CelciustoFahrenheit;
class CelciustoFahrenheit
{
    public static void Main(String[] args)
    {
        int c, f;
        Console.Write(" celcius :");
        c = Convert.ToInt32(Console.ReadLine());
        f = (9 / 5 * c) + 32;
        Console.WriteLine("fahrenheit :"+f);
    }
}
```

OUTPUT :



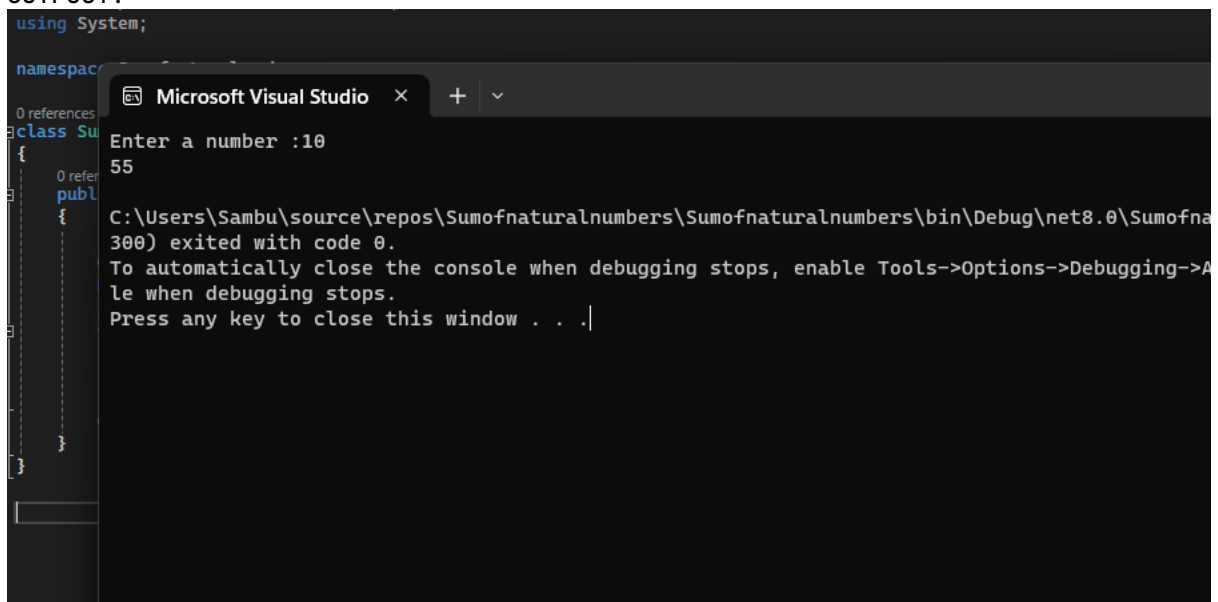
2.sum of natural numbers

```
using System;

namespace Sumofnaturalnumbers;

class Sumofnaturalnumbers
{
    public static void Main(string[] args)
    {
        int n;
        Console.Write("Enter a number :");
        n = Convert.ToInt32(Console.ReadLine());
        int sum = 0;
        for(int i = 1; i <= n; i++)
        {
            sum = sum + i;
        }
        Console.WriteLine(sum);
    }
}
```

OUTPUT:



```
using System;

namespace Sumofnaturalnumbers;

class Sumofnaturalnumbers
{
    public static void Main(string[] args)
    {
        int n;
        Console.Write("Enter a number :");
        n = Convert.ToInt32(Console.ReadLine());
        int sum = 0;
        for(int i = 1; i <= n; i++)
        {
            sum = sum + i;
        }
        Console.WriteLine(sum);
    }
}
```

Enter a number :10

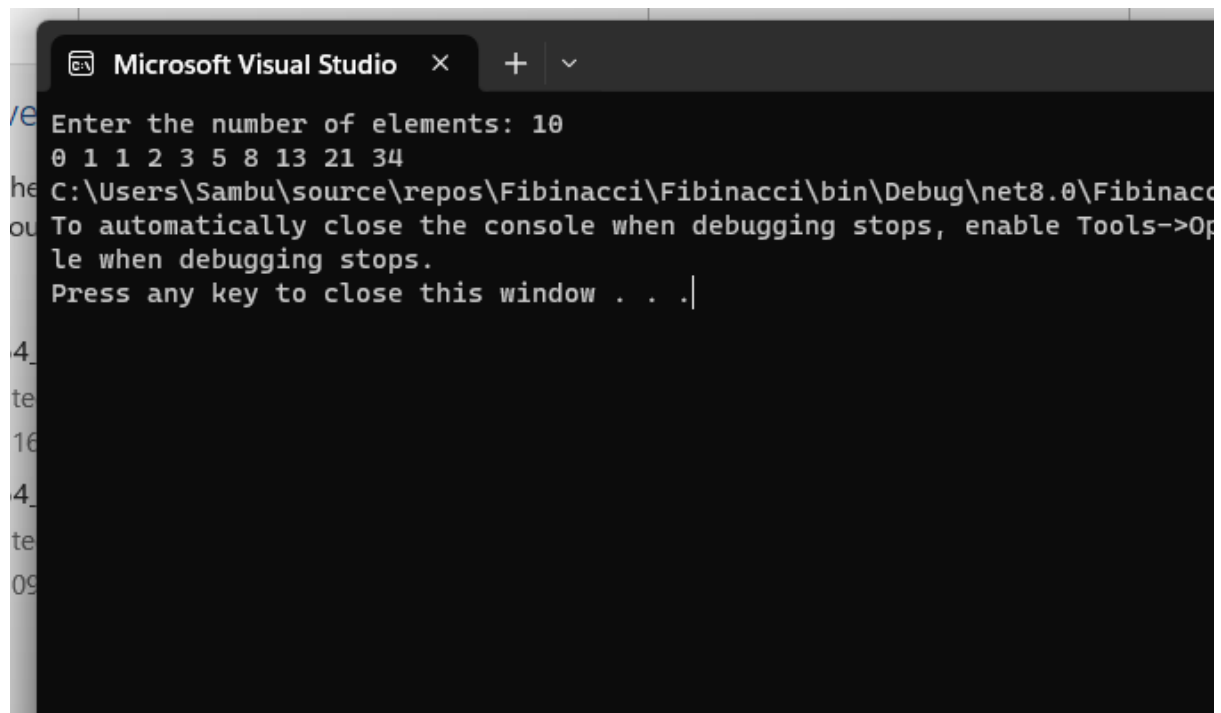
55

C:\Users\Sambu\source\repos\Sumofnaturalnumbers\Sumofnaturalnumbers\bin\Debug\net8.0\Sumofna  
300) exited with code 0.  
To automatically close the console when debugging stops, enable Tools->Options->Debugging->A  
le when debugging stops.  
Press any key to close this window . . .|

### 3.FINONACCI SERIES

```
using System;
class Fabinacci
{
    public static void Main(string[] args)
    {
        int n1 = 0, n2 = 1, n3, count;
        Console.Write("Enter the number of elements: ");
        count = int.Parse(Console.ReadLine());
        Console.Write(n1 + " " + n2 + " ");
        for (int i = 2; i < count; ++i)
        {
            n3 = n1 + n2;
            Console.Write(n3 + " ");
            n1 = n2;
            n2 = n3;
        }
    }
}
```

OUTPUT:

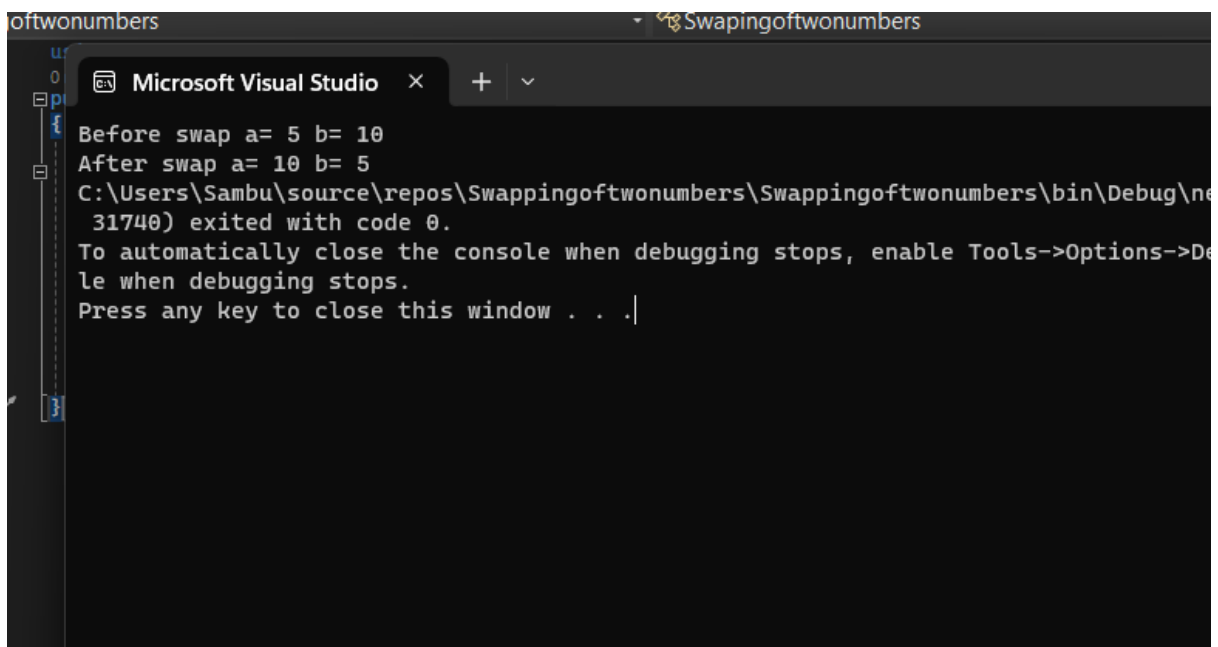


```
Microsoft Visual Studio
/e Enter the number of elements: 10
0 1 1 2 3 5 8 13 21 34
C:\Users\Sambu\source\repos\Fibonacci\Fibonacci\bin\Debug\net8.0\Fibonacci.exe
To automatically close the console when debugging stops, enable Tools->Options->Debug->Automatically close the console when debugging stops.
Press any key to close this window . . .|
```

#### 4.SWAPPING OF TWO NUMBERS

```
using System;
public class Swapingoftwonumbers
{
    public static void Main(string[] args)
    {
        int a = 5, b = 10;
        Console.WriteLine("Before swap a= " + a + " b= " + b);
        a = a * b;
        b = a / b;
        a = a / b;
        Console.WriteLine("After swap a= " + a + " b= " + b);
    }
}
```

OUTPUT :

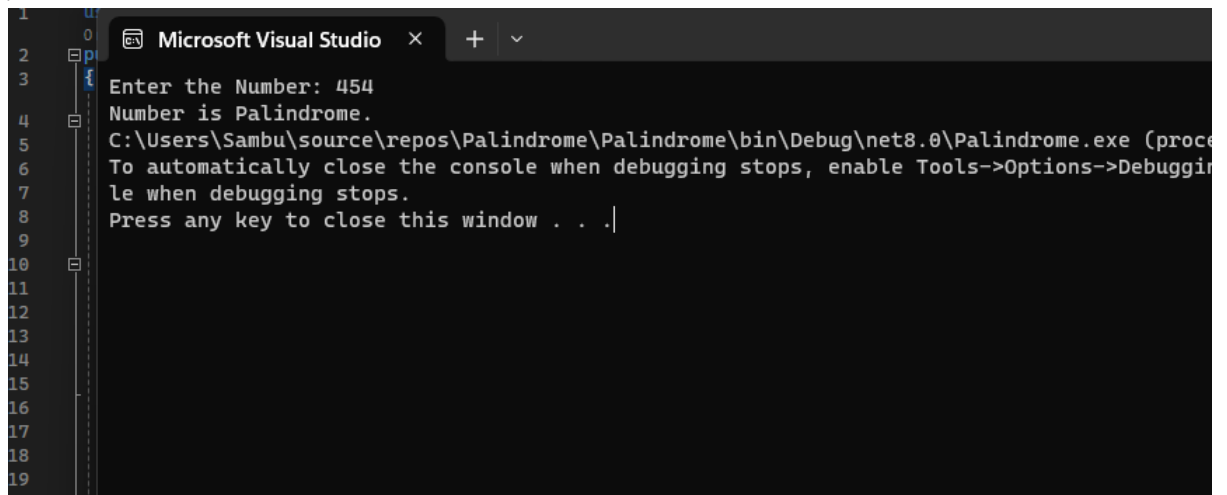
A screenshot of the Microsoft Visual Studio IDE. The top bar shows the project name 'oftwonumbers' and the solution name 'Swapingoftwonumbers'. The main window displays the console output of the program. The output text is: 'Before swap a= 5 b= 10', 'After swap a= 10 b= 5', the full file path 'C:\Users\Sambu\source\repos\Swappingoftwonumbers\Swappingoftwonumbers\bin\Debug\net31740\...', and a message stating the program exited with code 0. It also includes instructions to enable 'Tools->Options->Debugging->Close console when debugging stops' and a prompt to 'Press any key to close this window . . .|'.

```
oftwonumbers
Swapingoftwonumbers
Microsoft Visual Studio
Before swap a= 5 b= 10
After swap a= 10 b= 5
C:\Users\Sambu\source\repos\Swappingoftwonumbers\Swappingoftwonumbers\bin\Debug\net31740\...
31740) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Close console when debugging stops.
Press any key to close this window . . .|
```

## 5.PALINDROME

```
using System;
public class PalindromeExample
{
    public static void Main(string[] args)
    {
        int n, r, sum = 0, temp;
        Console.Write("Enter the Number: ");
        n = Convert.ToInt32(Console.ReadLine());
        temp = n;
        while (n > 0)
        {
            r = n % 10;
            sum = (sum * 10) + r;
            n = n / 10;
        }
        if (temp == sum)
            Console.Write("Number is Palindrome.");
        else
            Console.Write("Number is not Palindrome");
    }
}
```

OUTPUT:

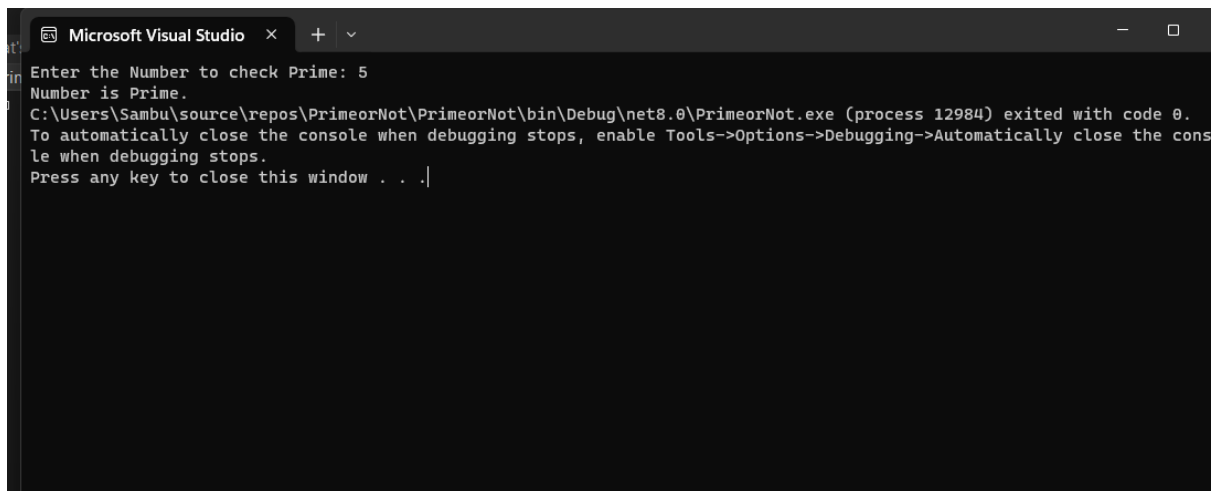


```
Microsoft Visual Studio x + v
1
2 Enter the Number: 454
3 Number is Palindrome.
4 C:\Users\Sambu\source\repos\Palindrome\Palindrome\bin\Debug\net8.0\Palindrome.exe (proce
5 To automatically close the console when debugging stops, enable Tools->Options->Debuggin
6 le when debugging stops.
7 Press any key to close this window . . .|
8
9
10
11
12
13
14
15
16
17
18
19
```

## 6.Prime or not

```
using System;
public class PrimeorNot
{
    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
Enter the Number to check Prime: 5
Number is Prime.
C:\Users\Sambu\source\repos\PrimeorNot\PrimeorNot\bin\Debug\net8.0\PrimeorNot.exe (process 12984) 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 . . .|
```

```
7. using System;
```

```
class Program
```

```
{
```

```
    static void Main(string[] args)
```

```
    {
```

```
        int n;
```

```
        Console.WriteLine("Enter number :");
```

```
        n=Convert.ToInt32(Console.ReadLine());
```

```
        int factorial = (int)CalculateFactorial(n);
```

```
        Console.WriteLine(factorial);
```

```
    }
```

```
    static long CalculateFactorial(int n)
```

```
    {
```

```
        if (n == 0)
```

```
            return 1;
```

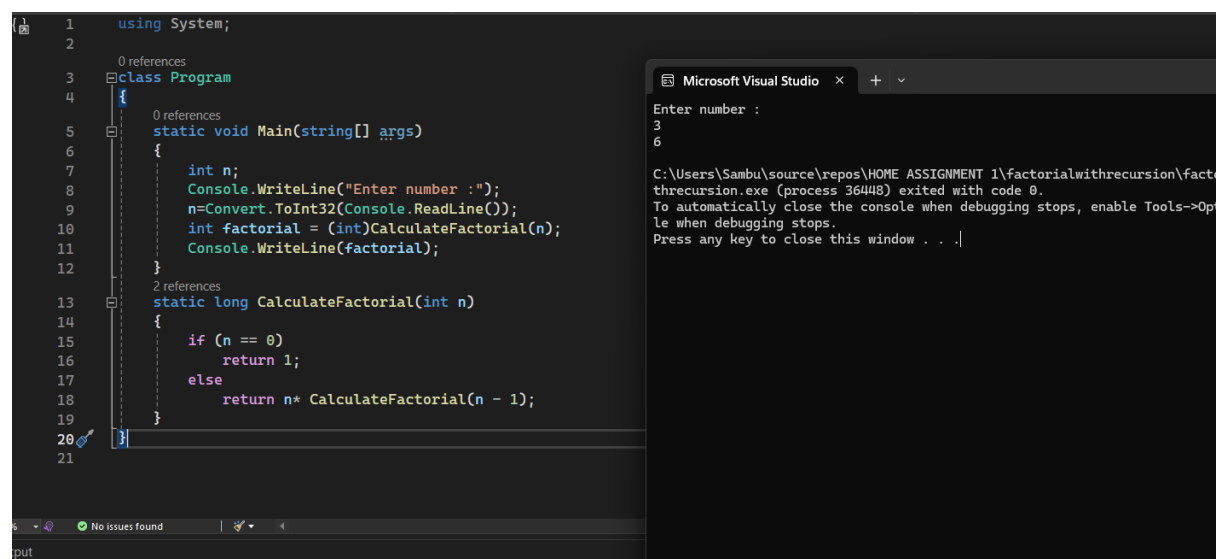
```
        else
```

```
            return n* CalculateFactorial(n - 1);
```

```
    }
```

```
}
```

Output:



```
1  using System;
2
3  class Program
4  {
5      static void Main(string[] args)
6      {
7          int n;
8          Console.WriteLine("Enter number :");
9          n=Convert.ToInt32(Console.ReadLine());
10         int factorial = (int)CalculateFactorial(n);
11         Console.WriteLine(factorial);
12     }
13     static long CalculateFactorial(int n)
14     {
15         if (n == 0)
16             return 1;
17         else
18             return n* CalculateFactorial(n - 1);
19     }
20 }
21
```

Microsoft Visual Studio

Enter number :  
3  
6

C:\Users\Sambu\source\repos\HOME ASSIGNMENT 1\factorialwithrecursion\fact  
threcursion.exe (process 36448) exited with code 0.  
To automatically close the console when debugging stops, enable Tools->Op  
le when debugging stops.  
Press any key to close this window . . .

```
8.using System;
```

```
class factorial
```

```
{
```

```
    static void Main(string[] args)
```

```
    {
```

```
        int f = 1;
```

```
        int n;
```

```
        System.Console.WriteLine("enter number :");
```

```
        n=Convert.ToInt32(Console.ReadLine());
```

```
        for(int i = 1; i <= n; i++)
```

```
        {
```

```
            f *= i;
```

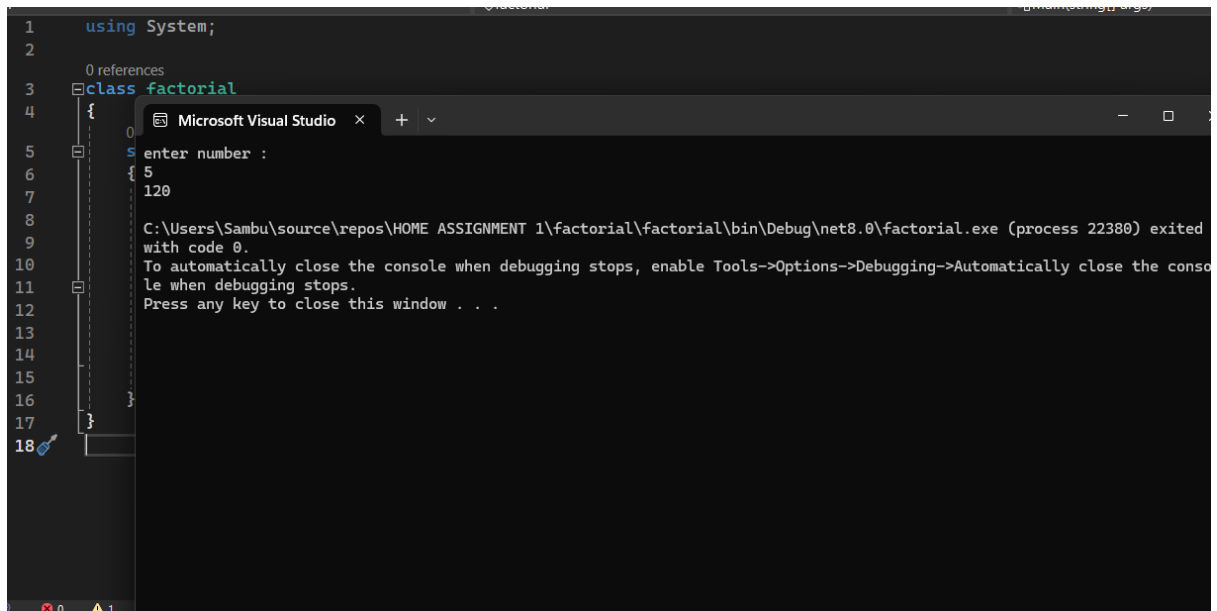
```
        }
```

```
        Console.WriteLine(f);
```

```
    }
```

```
}
```

Output:



```
1  using System;
2
3  class factorial
4  {
5      enter number :
6      {
7          5
8          120
9
10     C:\Users\Sambu\source\repos\HOME ASSIGNMENT 1\factorial\factorial\bin\Debug\net8.0\factorial.exe (process 22380) exited
11     with code 0.
12     To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console
13     when debugging stops.
14     Press any key to close this window . . .
15
16
17
18
```