

Toate exercitiile sunt disponibile aici: <https://github.com/SeriousNip/IILABS>

The image shows two side-by-side instances of Microsoft Visual Studio running on a Windows operating system. Both instances have a dark theme.

Top Window (Fibonacci Application):

- Solution Explorer:** Shows a solution named "ConsoleApp1" with one project "ConsoleApp1".
- Code Editor:** Displays the "Program.cs" file with C# code for generating Fibonacci numbers. The code includes a main loop that prompts the user for the number of terms and then prints the sequence.
- Output Window:** Shows the command-line output of the application, including the user input and the generated Fibonacci sequence.
- Debug Console:** Shows the Microsoft Visual Studio Debug Console with the same output as the Output window.

Bottom Window (Basic Operations Application):

- Solution Explorer:** Shows a solution named "ConsoleApp1" with one project "ConsoleApp1".
- Code Editor:** Displays the "Program.cs" file with C# code for performing basic arithmetic operations (Addition, Subtraction, Multiplication, Division) on two user inputs.
- Output Window:** Shows the command-line output of the application, including the user inputs and the calculated results.
- Debug Console:** Shows the Microsoft Visual Studio Debug Console with the same output as the Output window.

Solution Explorer

Operations.cs

```

1  using System;
2  using System.Collections.Generic;
3  using System.Text;
4
5  namespace ConsoleApp1
6  {
7      class Operations
8      {
9          double m1, m2;
10         public operations(double num1, double num2)
11         {
12             m1 = num1;
13             m2 = num2;
14         }
15         public double addition()
16         {
17             double r;
18             r = m1 + m2;
19             return r;
20         }
21
22         public double subtraction()
23         {
24             double r;
25             r = m1 - m2;
26             return r;
27         }
28
29         public double multiplication()
30         {
31             double r;
32             r = m1 * m2;
33             return r;
34         }
35
36         public double division()
37         {
38             double r;
39             r = m1 / m2;
40             return r;
41         }
42     }
43 }
```

No issues found

Output

```

Show output from: Debug
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Console.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Threading.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
The program '[13964] ConsoleApp1.exe' has exited with code 0 (0x0).

```

Error List Output

Ready

Solution Explorer

Conversions.cs

```

1  using System;
2
3  namespace ConsoleApp1
4  {
5      class Program
6      {
7
8          static void Main(string[] args)
9          {
10             Console.WriteLine("Enter a number you want displayed in Fahrenheit and Celsius");
11             double n = Convert.ToDouble(Console.ReadLine());
12
13             Conversions con = new Conversions(n);
14
15             Console.WriteLine("Your number from Fahrenheit to Celsius is:");
16             Console.WriteLine(con.f2c());
17
18             Console.WriteLine("Your number From Celsius to Fahrenheit is:");
19             Console.WriteLine(con.c2f());
20
21         }
22     }
23
24
25 }
26 }
```

No issues found

Output

```

Show output from: Debug
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Console.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Threading.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe (CoreCLR: cihost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
The program '[13964] ConsoleApp1.exe' has exited with code 0 (0x0).

```

Error List Output

Ready

The screenshot shows two instances of Microsoft Visual Studio. The left instance is for 'ConsoleApp1' and the right is for 'ConsoleApp2'. Both instances have their 'Output' tabs open, displaying the command-line output of their respective programs.

ConsoleApp1 Output:

```
Show output from: Debug
"ConsoleApp1.exe" (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
"ConsoleApp1.exe" (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Private.Uri.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
"ConsoleApp1.exe" (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Runtime.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
"ConsoleApp1.exe" (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Threading.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
"ConsoleApp1.exe" (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\3.1.12\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
The program '[3996] ConsoleApp1.exe' has exited with code 0 (0x0).
```

ConsoleApp2 Output:

```
Show output from: Debug
Microsoft Visual Studio Debug Console
Enter Gender: (m/f)
# Enter Height in cm:
175
Enter Age:
21
69
D:\Facultad\An3Sem2\Industr. Informatic\IIILAB5\Lab1\Ex4\ConsoleApp1\bin\Debug\netcoreapp3.1\ConsoleApp1.exe (process 1063) 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 . . .
```

Screenshot 1: Visual Studio IDE - Weight.cs

```

    1  using System;
    2  using System.Collections.Generic;
    3  using System.Text;
    4
    5  namespace ConsoleApp1
    6  {
    7      // references
    8      class Weight
    9      {
   10          double[] genderCoef;
   11          int height, age;
   12
   13          public Weight(double[] arr, int h, int a)
   14          {
   15              genderCoef = arr;
   16              height = h;
   17              age = a;
   18
   19          }
   20
   21          public double compWeight()
   22          {
   23              double res;
   24              res = (height - 180 - ((height - 150) / genderCoef[0])) + ((age - 20) / genderCoef[1]);
   25              return res;
   26          }
   27      }
   28  }

```

Screenshot 2: Visual Studio IDE - Program.cs

```

    6  {
    7      // references
    8      static void Main(string[] args)
    9      {
   10          Console.WriteLine("Enter number of elements for which to compute the mean");
   11
   12          int n = Convert.ToInt32(Console.ReadLine());
   13
   14          int[] arr = new int[n];
   15
   16          for (int i = 0; i < n; i++)
   17          {
   18              arr[i] = Convert.ToInt32(Console.ReadLine());
   19          }
   20
   21          double aritmMean = 0;
   22          for (int i = 0; i < n; i++)
   23          {
   24              aritmMean += arr[i];
   25          }
   26
   27          aritmMean /= n;
   28          Console.WriteLine("Media Aritmética este: " + aritmMean);
   29
   30          double geomMean = 1;
   31          for (int i = 0; i < n; i++)
   32          {
   33              geomMean *= arr[i];
   34          }
   35
   36          geomMean = Math.Sqrt(geomMean);
   37
   38          Console.WriteLine("Media Geometrica este: " + geomMean);
   39
   40      }
   41  }

```

The output window shows the execution of the program:

```

Show output from: Debug
ConsoleApp1.exe' (CoreCLR: clhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App.3.1.12\System.Runtime.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe' (CoreCLR: clhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App.3.1.12\System.Console.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe' (CoreCLR: clhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App.3.1.12\System.Threading.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
ConsoleApp1.exe' (CoreCLR: clhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App.3.1.12\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Module is optimized and the debugger option 'Just My Code' is enabled.
The program '[10836] ConsoleApp1.exe' has exited with code 0 (0x0).

```