Lab: C# Intro and Basic Syntax
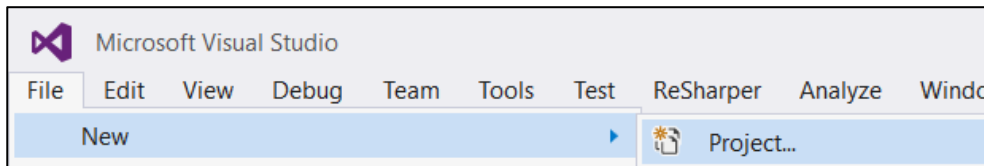
Problems for exercises and homework for the "Programming Fundamentals Extended" course @ SoftUni.

Problem 1. Greeting

Write a program, which **greets** the user by their **name**, which it **reads** from the **console**.
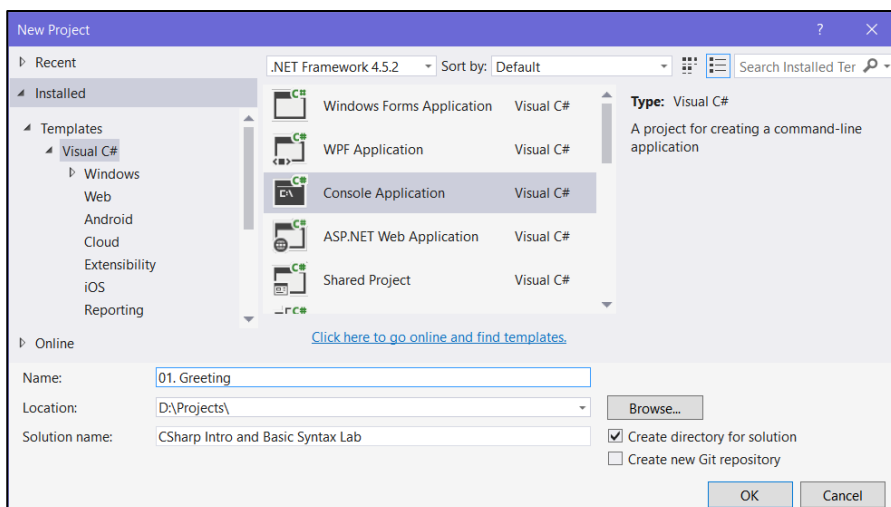
Step 1.   Create a New C# Project, using Visual Studio

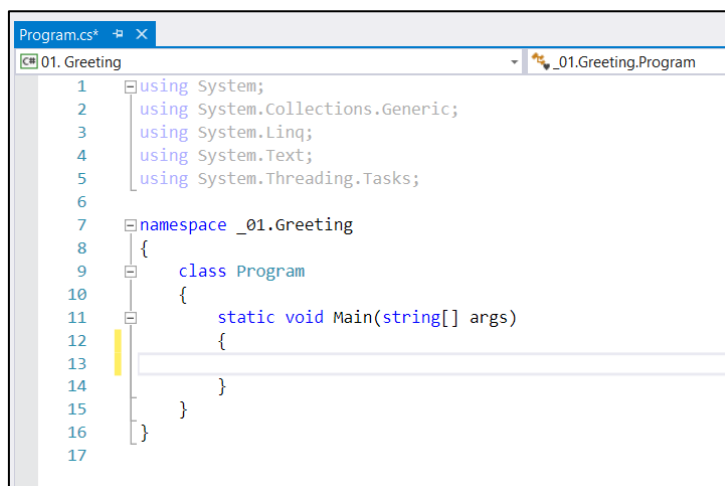Open **Visual Studio** and create a new project by going into **[File → New → Project]**:

After that, the project creation window will open.

Select **Visual C#**, then **Console Application** and name it appropriately:
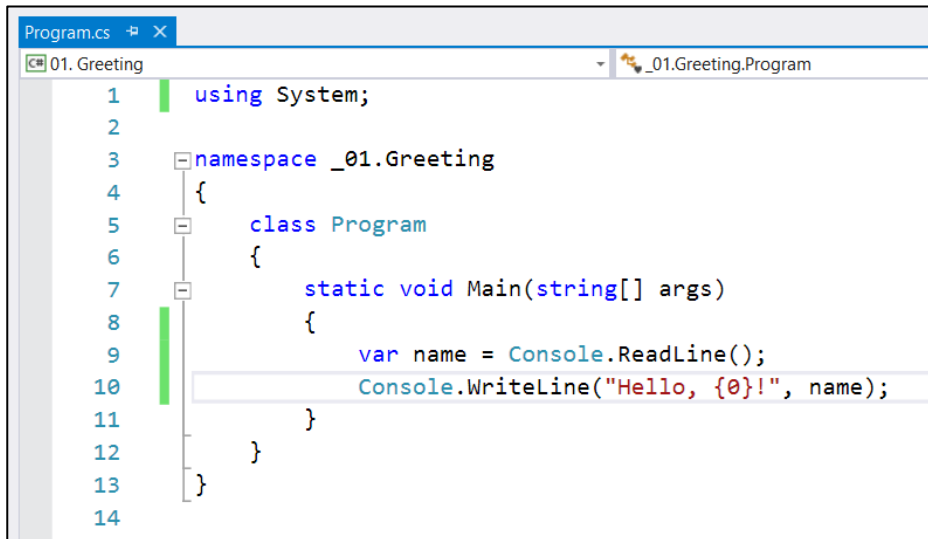

Step 2.   Write the Program Logic

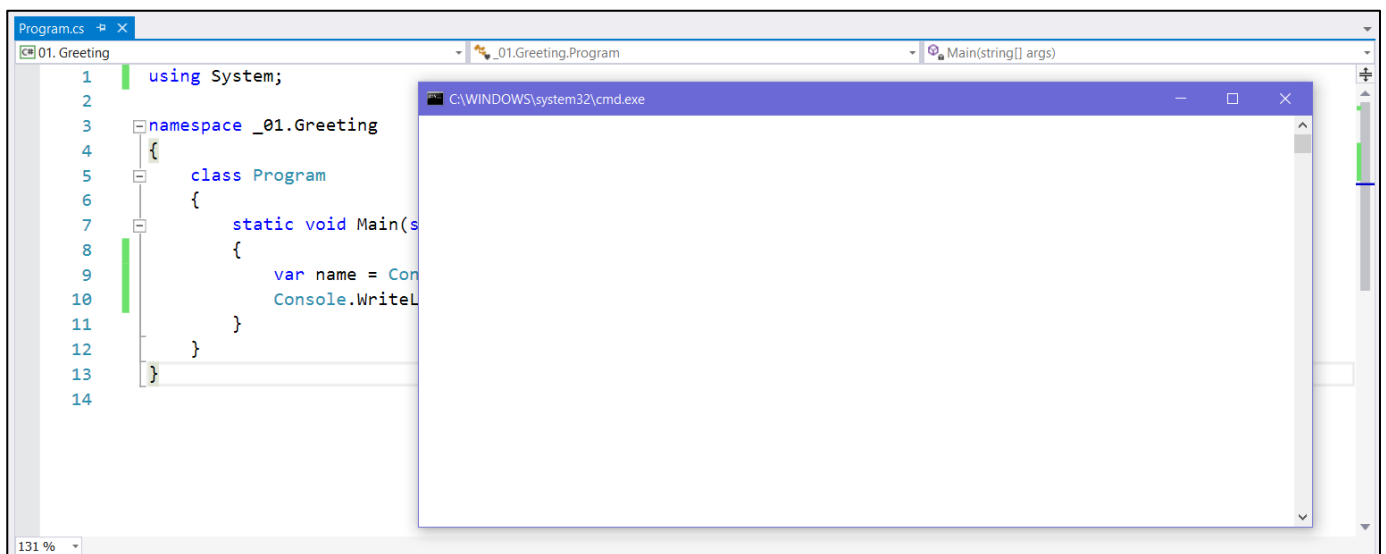A new file opens in the editor, which looks like this:

Let's write the program logic. We want to **read** a name and then **print** that name with some additional text on the **console**. To accomplish this, we'll use `Console.ReadLine()` and `Console.WriteLine()`:
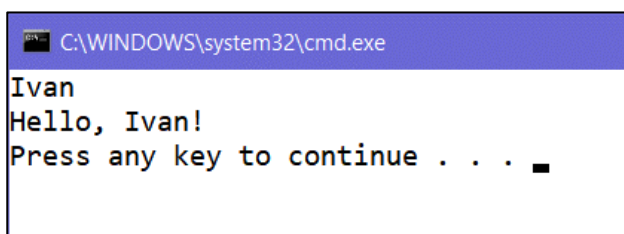
```csharp
using System;

namespace _01.Greeting
{
    class Program
    {
        static void Main(string[] args)
        {
            var name = Console.ReadLine();
            Console.WriteLine("Hello, {0}!", name);
        }
    }
}
```

Step 3. Test the Program

After we wrote the program logic, we can **start** our program, using **[Ctrl+F5]**:

Let's **type in** a name and see if it works:

```
C:\WINDOWS\system32\cmd.exe
Ivan
Hello, Ivan!
Press any key to continue . . .
```

If you followed all the steps correctly, you should be greeted by your program! Submit the code in **Judge** and test if it works correctly.

Examples

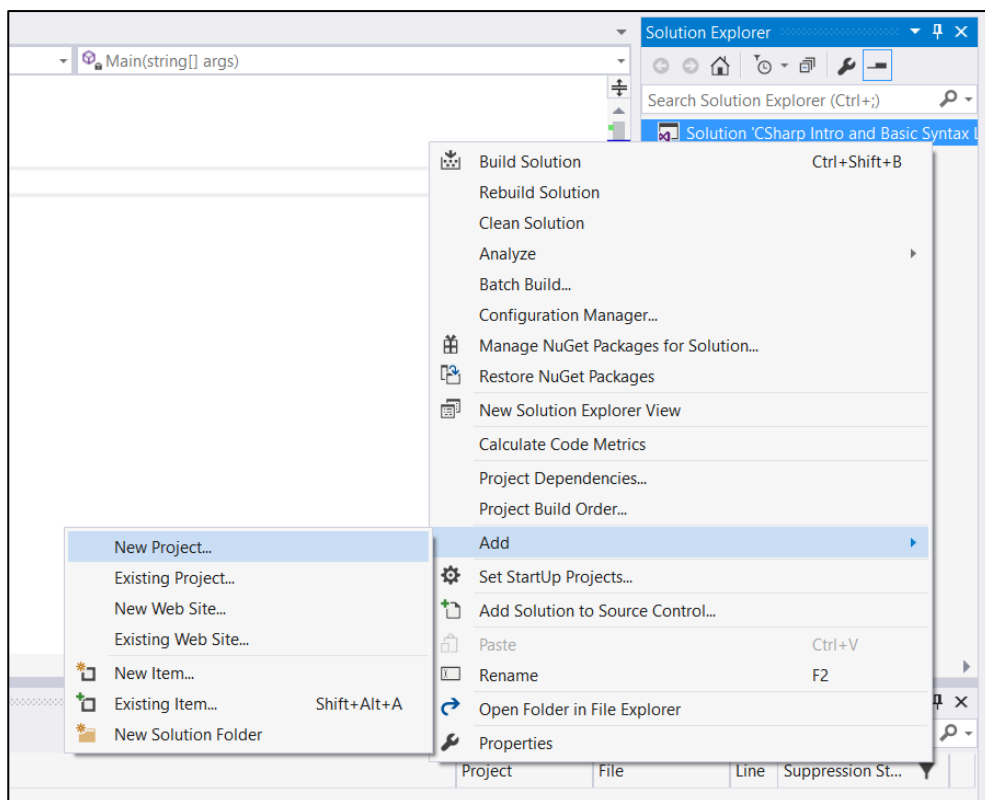| Input	Output
Pesho	`Hello, Pesho!`
Ivan	`Hello, Ivan!`
Merry	`Hello, Merry!`

Problem 2. Add Two Numbers

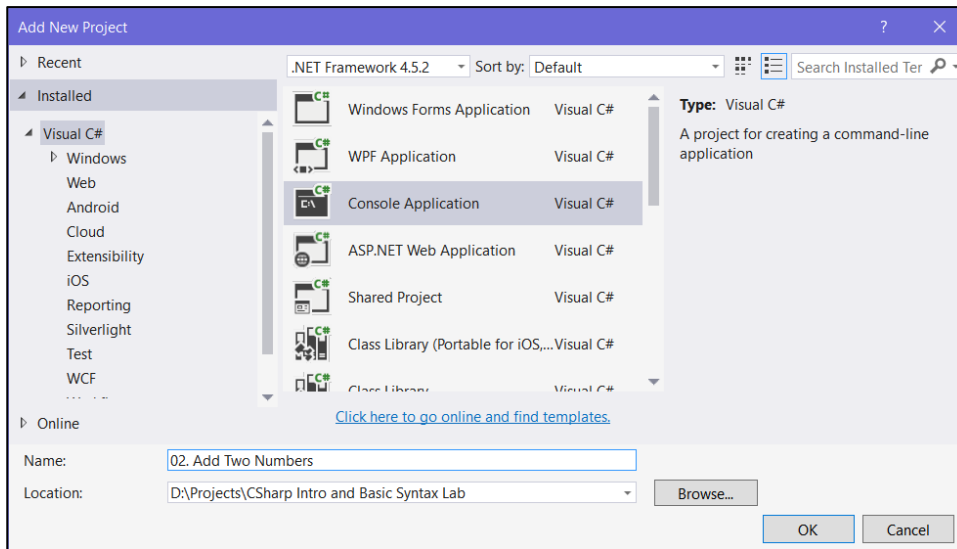Write a program, which **reads 2 whole numbers** and **adds** them together. Then, print them in the following format:

- "**a + b = sum**"

Step 1.   Create a New C# Project Inside the Solution

In **Visual Studio**, create a new project in our **current solution** by **right clicking** the **solution** in the **Solution Explorer** and navigating to **[Add → New Project…]**:
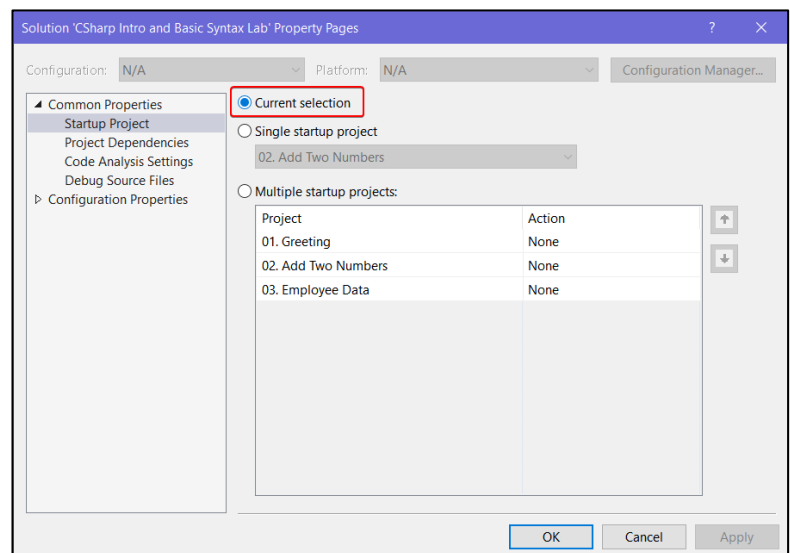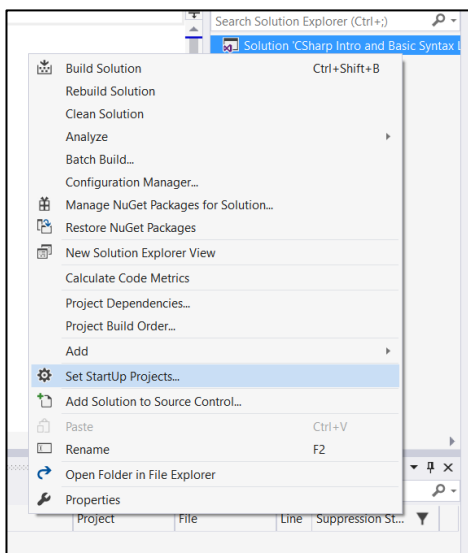

After that, name it appropriately and hit **[OK]**:

Step 2. Change the Startup Project

Now that you've created a new project inside the solution, you need to **set the startup project to the currently selected project**, otherwise whenever you hit **[Ctrl+F5]**, the **previous problem** will start. So **right click** the **solution** and hit "**Set Startup Projects**":

Now we're ready to write our logic.

Examples

Input	Output
2 5	2 + 5 = 7
1 3	1 + 3 = 4
-3 5	-3 + 5 = 2

Problem 3. Employee Data

Write a program to read **data** about an **employee** and print it on the console with the appropriate formatting. The order the input comes in is as such:

- Name – **no** formatting
- Age – **no** formatting
- Employee ID – **8-digit padding** (employee id 356 is 00000356)
- Monthly Salary – formatted to **2 decimal places** (2345.56789 becomes 2345.56)

Examples

Input	Output
Ivan 24 1192 1500.353	Name: Ivan Age: 24 Employee ID: 00001192 Salary: 1500.35
Peter 30 113236 1738.1112	Name: Peter Age: 30 Employee ID: 00113236 Salary: 1738.11
Naiden 27 1111222 3560	Name: Naiden Age: 27 Employee ID: 01111222 Salary: 3560.00

Hints

- You can use "**D**" and "**F**" to format numbers in C#. You can read more about formatting strings here.