

Object Oriented Programming

Lab Manual - Setting Up Visual Studio

Introduction

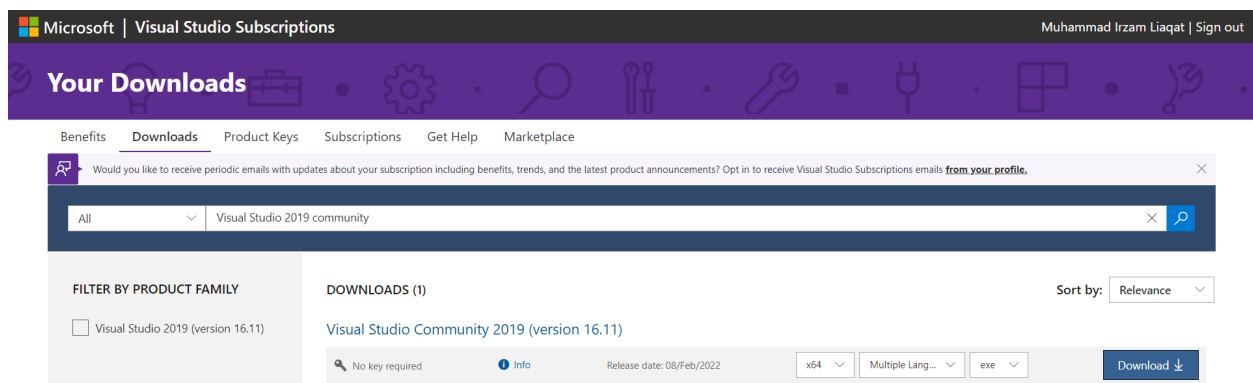
In this course, we will learn a new programming language that is known as C# (C Sharp). First thing first, we need to set up an environment in which we learn to code different programs using this language.

Visual Studio 2019 Community Edition

We can download Visual Studio 2019 Community Edition for this purpose. Visit the following link to get Visual Studio on your Computer.

<https://my.visualstudio.com/Downloads/Featured?mkt=en-us>

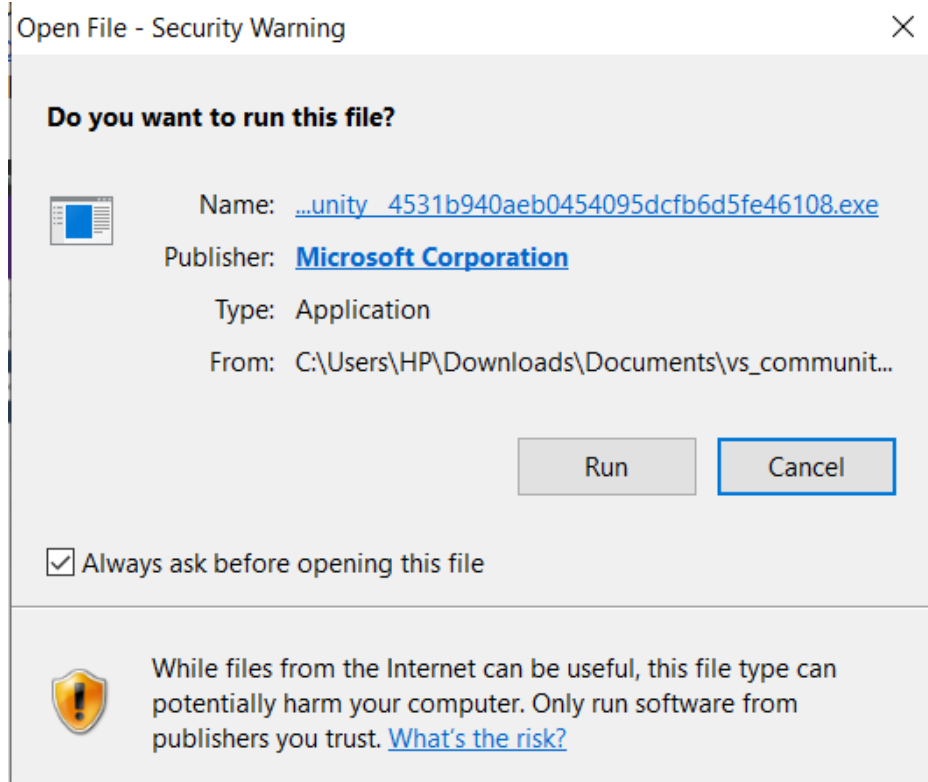
The following page should be loaded on your machine. Click on the download button to start the download.



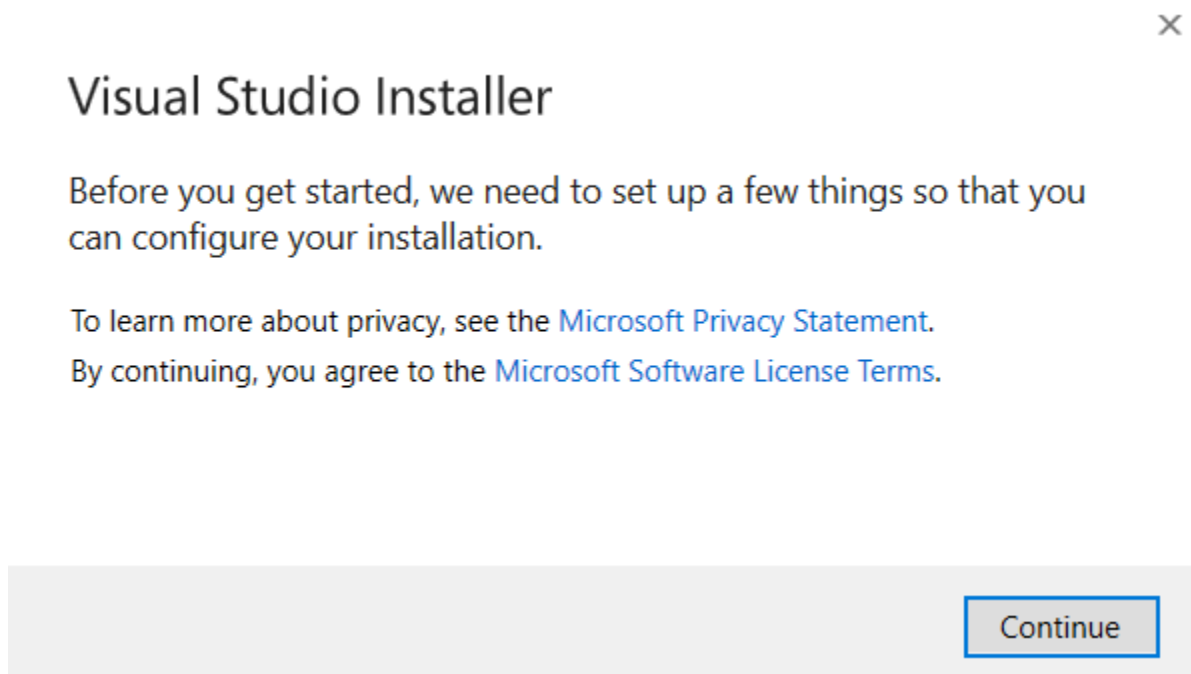
Depending on your internet speed, the setup will be downloaded in a few minutes. Once it has finished downloading the package, double click on it to start the installation. Click on the **Run button** to start the installation process.

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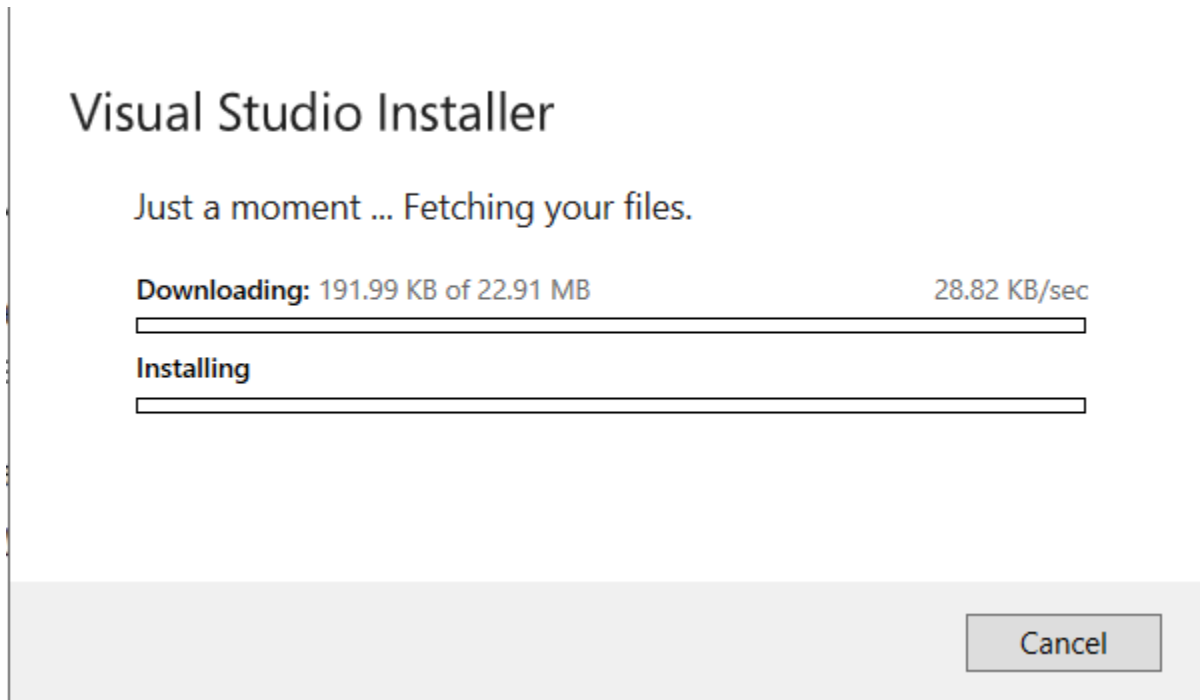
Now click on the **continue** to complete the installation.



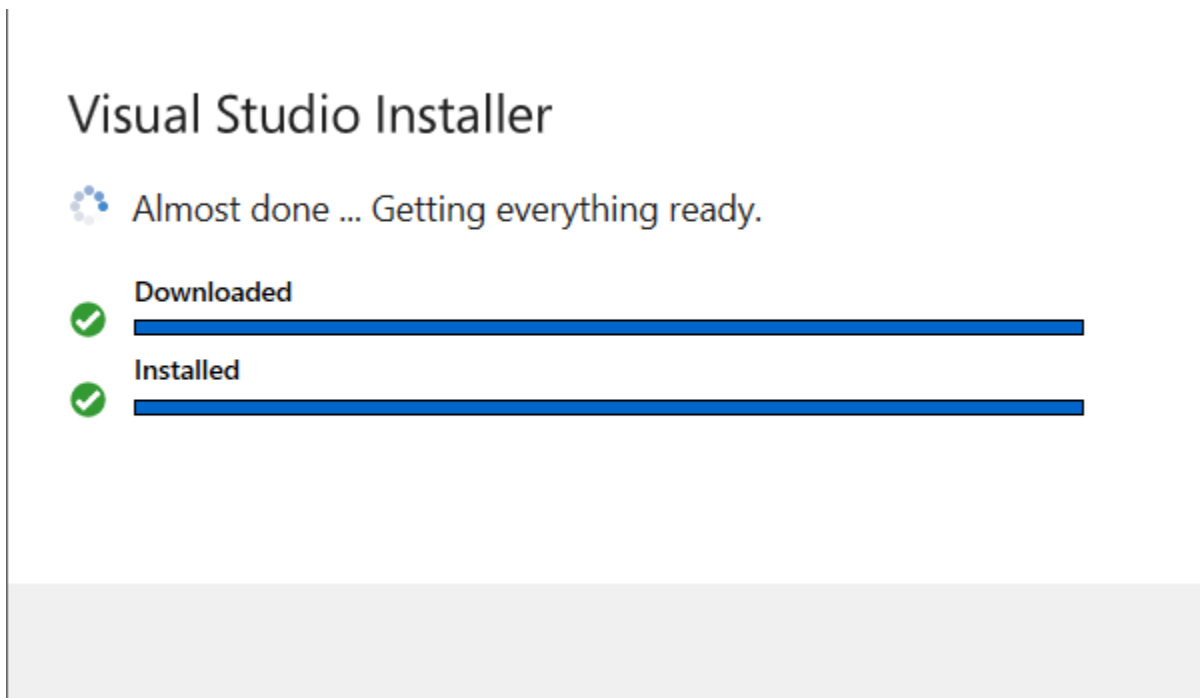
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It will take a few more minutes to complete the installation by downloading some additional resources for the software.



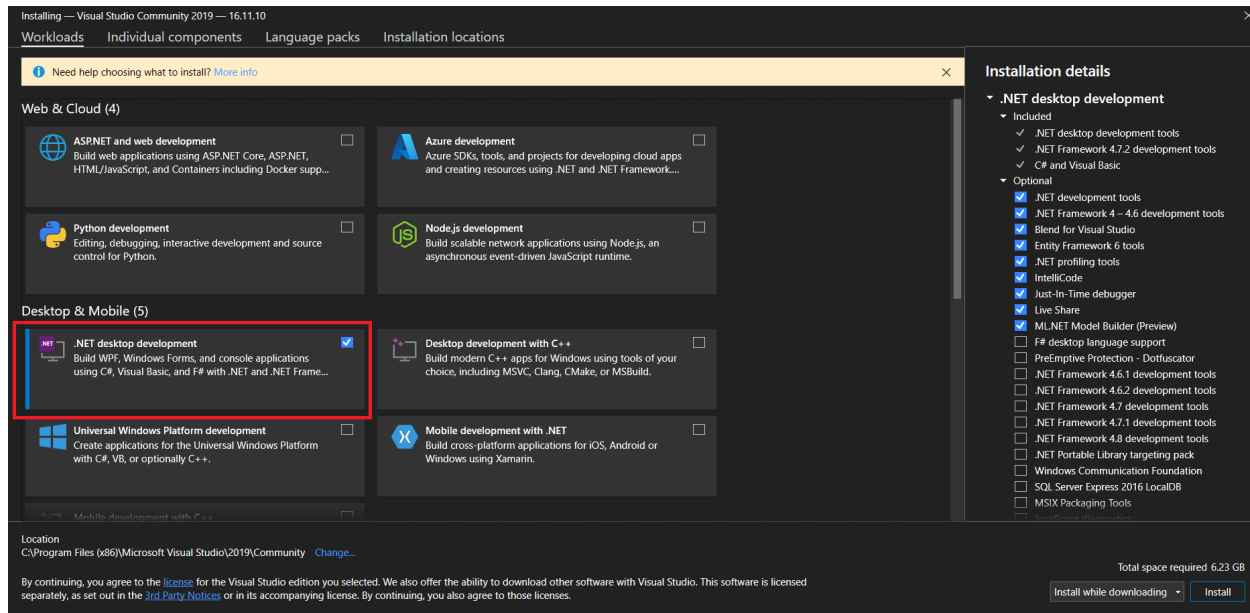
Upon completion of the installation wizard will look like this.



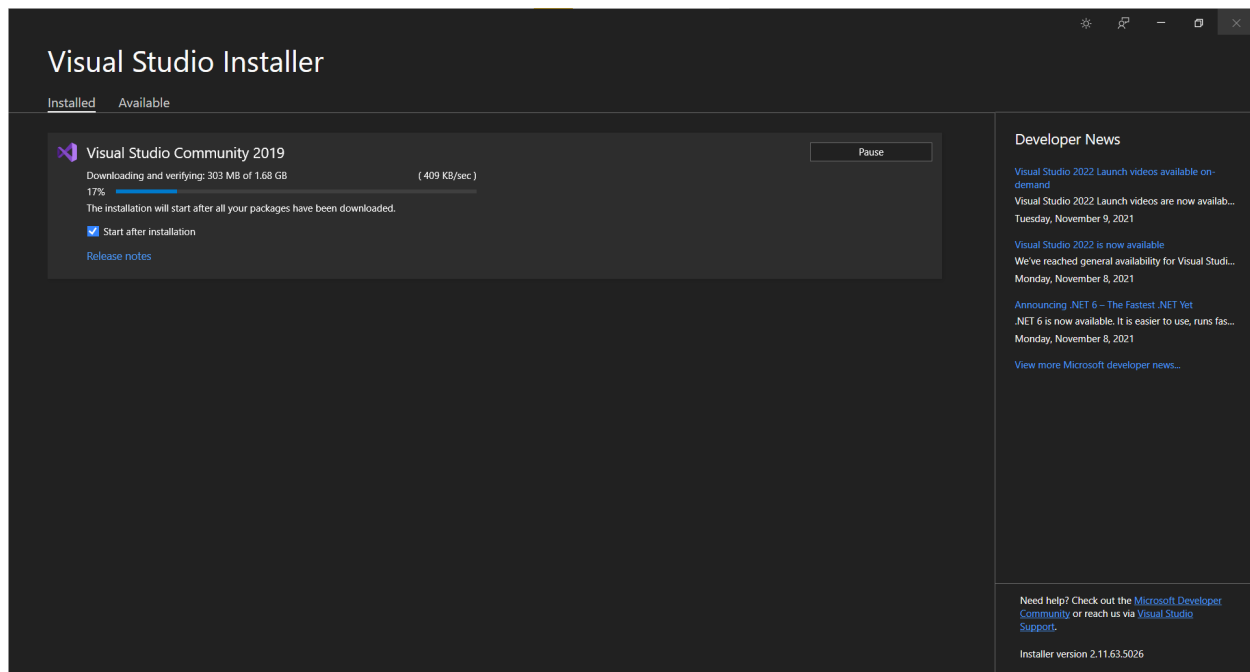
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The Visual Studio has been installed on your machine. Moving onwards, it should ask you about the underlying environment that you want to set up on your computer. Select the **“.Net desktop development”** and select the **“download all then install”** option from the drop-down list below and click on the **install**.



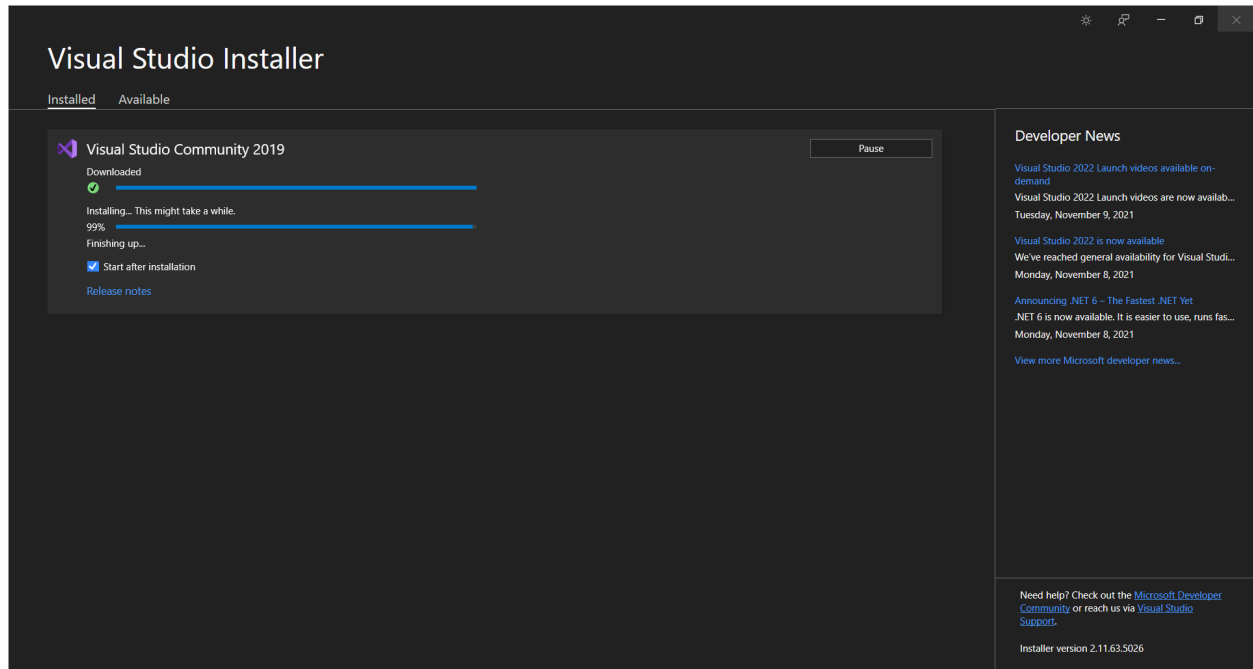
It will download the required packages for the selected underlying architecture, and depending on your internet speed it will complete the process in some time.



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Once it has been downloaded, it will automatically start the installation. Give it a few more minutes to complete the installation.



Congratulations, You have successfully set up Visual Studio on your machine for effectively learning the C# concepts.

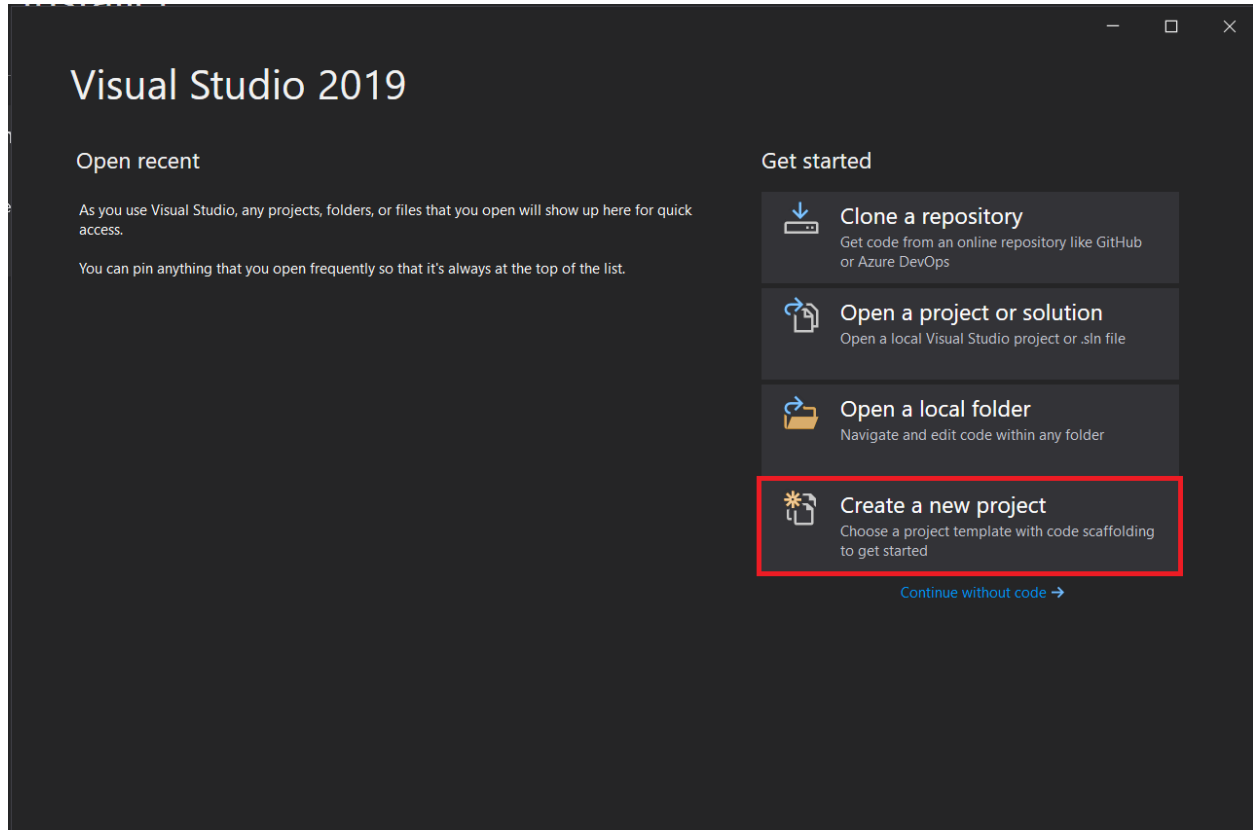
Students, Let's start having fun and do some coding.

Creating the first C# program.

Open the Visual Studio and Click on “**Create a New Project**”

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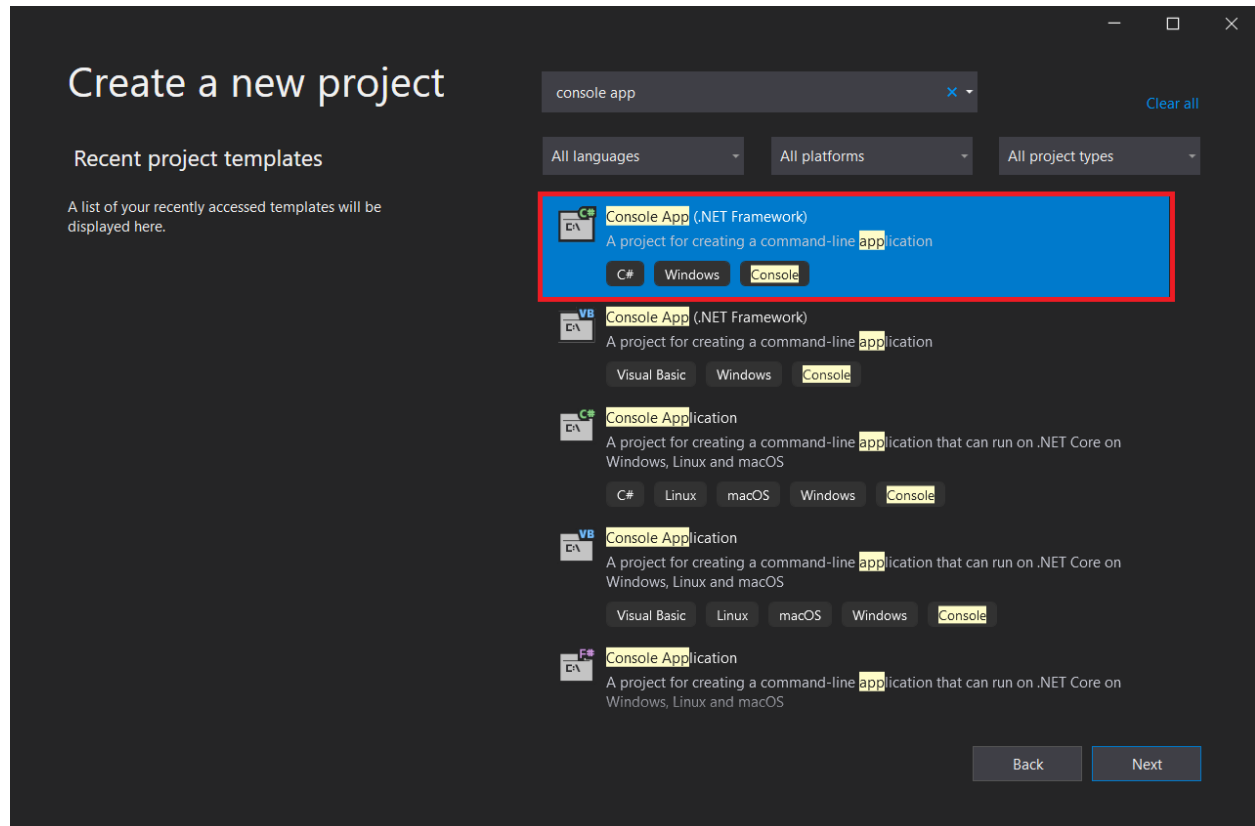
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This will open a new window and ask you to select an option from a list of various options. Select “**Console App (.NET Framework)**” and click on “**Next**” to proceed.

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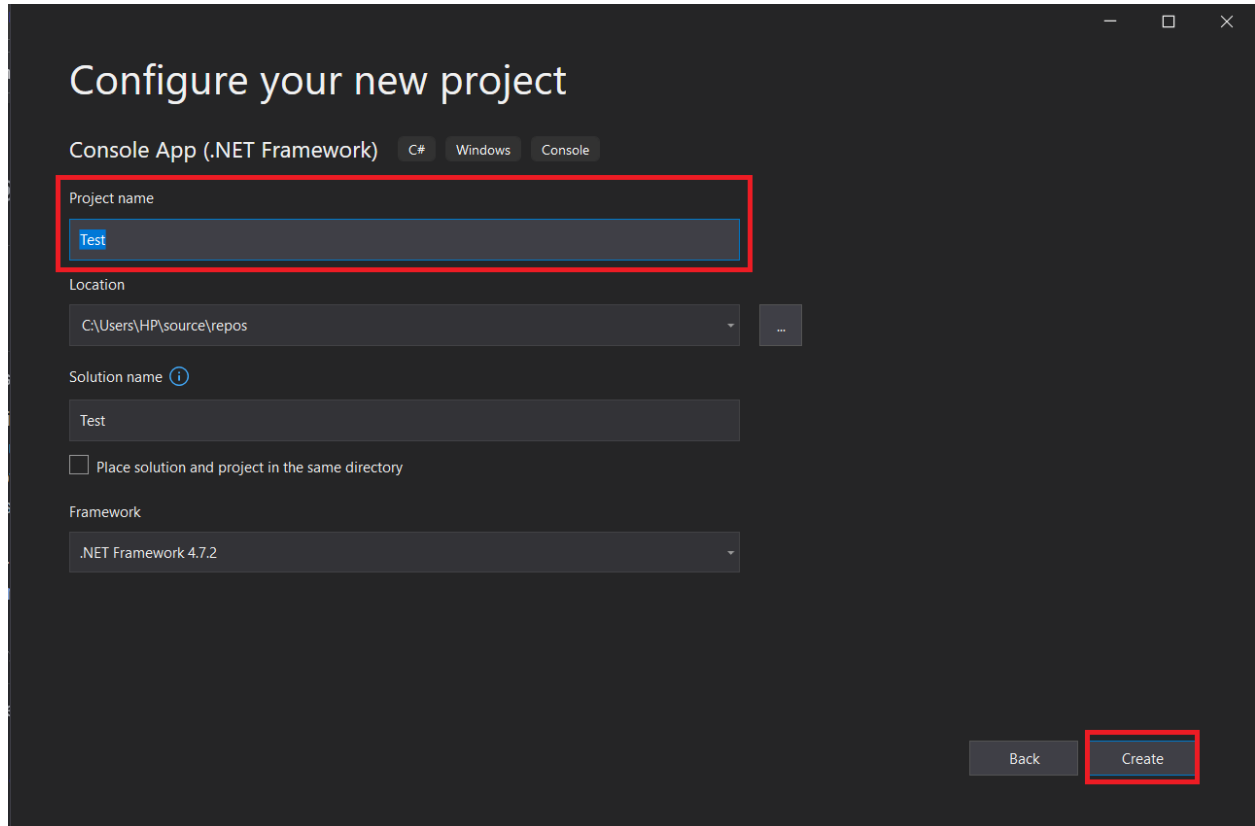
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It will take you to the “**configure your new project**” window. Enter the desired name of your project and click on “**Create**” to create your first C# project.

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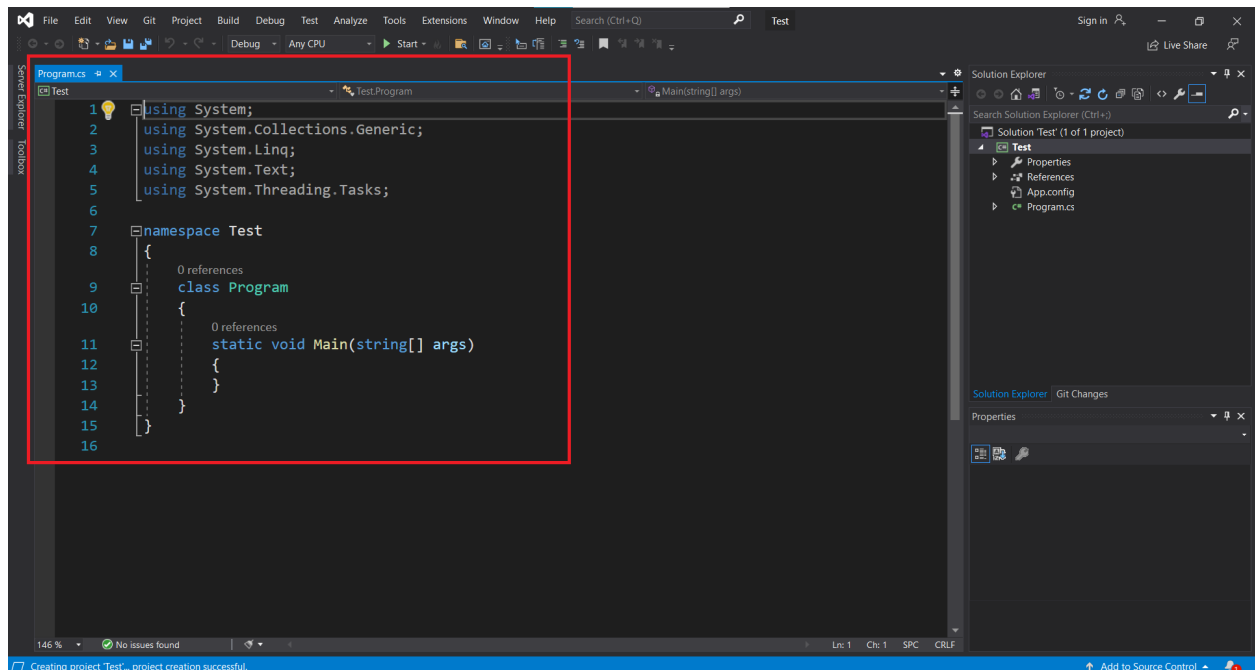
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Congratulations !!!!!!!!!!!!!!!

You have successfully created your first project in C# in Visual Studio.

The following window would appear on the screen.



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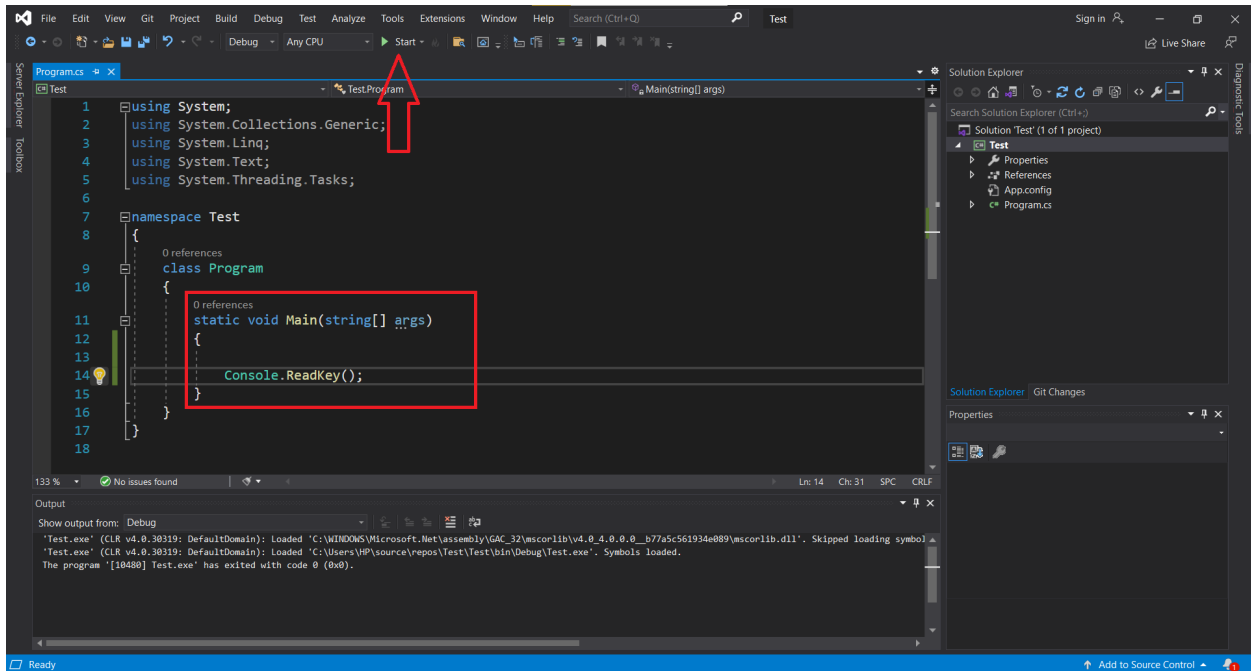
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The initial program will be coded for you by the visual studio itself. You need to write the code inside the body of “**Main function**”.

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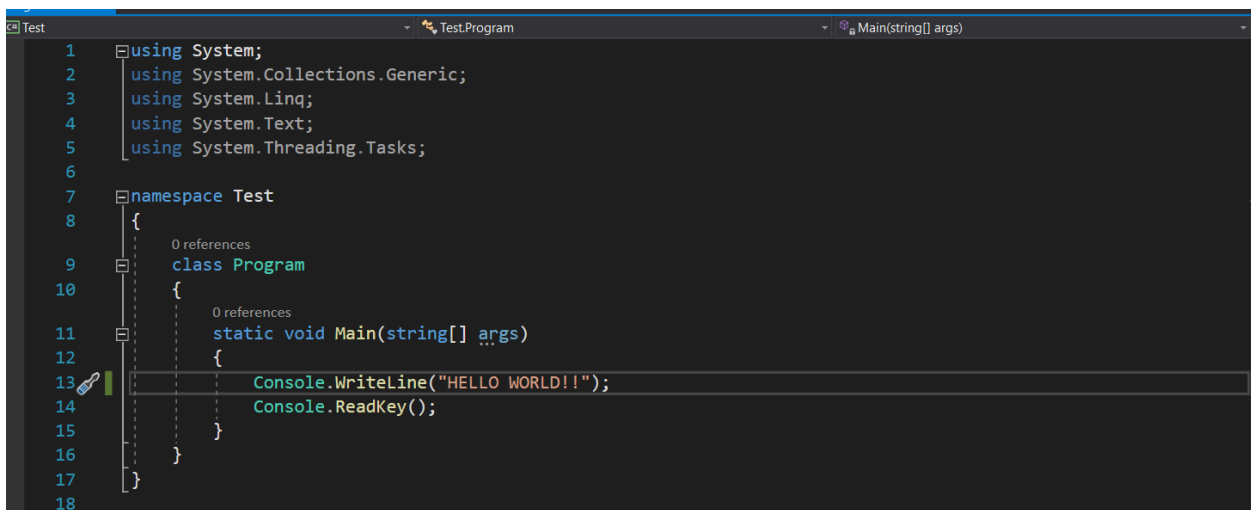
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Now, as you have been informed in the theory class by your teacher that in order to hold the screen after compiling the program so we can see the code, we need to write the code line of “**Console.ReadKey();**”.



In order to execute the program, click on “**Start**” as pointed by the arrow on the screenshot above.

Now, we have studied the line of “**Console.WriteLine(“Hello World!!”)**”, let's add it to our code and execute this.



The code produces the following output:

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