# C# Notes

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## Section 1: Your First C# Program and Overview of Visual Studio

### 5. Difference between the .NET5 and .NET6 Console Template

In Visual Studio code we have different templates to select for a project. We will select the Console App that has the C# logo at the top.

We will call this project "Net5".

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| Net5/Program.cs |
| using System;  namespace Net5  {  internal class Program  {  static void Main(string[] args)  {  Console.WriteLine("Hello World!");  }  }  } |

What is the .NET platform?

They wanted to unify the development of all different environments into one, so now they put everything together cloud development, desktop, web, gaming, mobile, IoT, and AI together under the dotnet hood, and there is no dotnet framework as well as dotnet core separated. It all comes together. So the .Net platform is basically just the entire framework or the package of a bunch of different pieces of code that is put together so that we can write code very easily and build applications very quickly without having to build everything from scratch.

We can now create a new project called "Net6."

|  |
| --- |
| Net6/Program.cs |
| // See https://aka.ms/new-console-template for more information  Console.WriteLine("Hello, World!"); |

The .Net 5 template and the .Net 6 template are basically the same. The difference is for .Net6 we are by default inside of the Main method block.

### 6. Hello World – First Program

In "bin/Debug/net5.0" there is a "\*.exe" file. It is closing right away. If you click on the "\*.exe" file, it will also open the console. Unfortunately, it's closing right away. If you want to make sure that the console stays open you need to add Console.Read();This will read the next character from the standard input stream.

If you run this code,

|  |
| --- |
| HelloWorld/Program.cs |
| using System;  namespace HelloWorld  {  internal class Program  {  // Entry point of our program  static void Main(string[] args)  {  Console.WriteLine("Hello World!");  Console.WriteLine("Hello Jeremy");  Console.Read();  }  }  } |

It will run as it did before but will stay open and let me press a key and then it will close so to speak even though in Visual Studio, by default, it leaves this window open for us for debugging.

Text

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