04 Your first C sharp program

Sure! Here's a simple "Hello, World!" program written in C# using .NET Core:

```
using System;

class Program
{
    static void Main(string[] args)
    {
        Console.WriteLine("Hello, World!");
    }
}
```

Let's break down the different parts of this program:

- using system; : This line tells the compiler to include the system namespace, which contains fundamental types and classes provided by the .NET Core framework.
- class Program: This defines a class named Program. In C#, the entry point of a program is typically the Main method within a class named Program.
- static void Main (string[] args): This is the entry point of the program. It is a static method named Main, which accepts an array of strings (args) as parameters. The Main method is where the program starts executing.
- Console.WriteLine("Hello, World!"); : This line writes the string "Hello, World!" to the console output. The Console.WriteLine method is used to print text to the console.

To run this program:

- 1. Make sure you have the .NET Core SDK installed on your system. You can download it from the official .NET website: https://dotnet.microsoft.com/download
- 2. Create a new directory for your project and navigate into it using the command line.
- 3. Create a new C# file (e.g., Program.cs) and paste the code snippet above into the file.

- 4. Open a terminal or command prompt in the directory containing your C# file.
- 5. Run the following command to compile and execute the program:

dotnet run

You should see the output "Hello, World!" printed to the console.

Congratulations! You've just created and run your first C# program using .NET Core.