

Visual Studio 2019: Getting Started Guide

1. Introduction

This document provides **step-by-step instructions** for installing, setting up, and creating a simple program in **Visual Studio 2019**. It is designed for **beginner programmers** and will guide users through the process of writing a basic program that adds two numbers together.

2. System Requirements

Before installing **Visual Studio 2019**, ensure your system meets the following **minimum requirements**:

Component Minimum Requirement

OS	Windows 10 (64-bit) or later
Processor	1.8 GHz or faster
RAM	4 GB (8 GB recommended)
Storage	20 GB available space
Internet	Required for installation

3. Installing Visual Studio 2019

Follow these steps to **download and install** Visual Studio 2019:

Step 1: Download the Installer

1. Open a web browser and go to <https://visualstudio.microsoft.com/downloads/>.
2. Under “**Visual Studio 2019**”, select the **Community Edition** (free version).
3. Click “**Download**” to save the installer to your computer.

Step 2: Run the Installer

1. Locate the downloaded file (**VS_Installer.exe**) and double-click it to start the installation.
2. In the **Visual Studio Installer**, select “**.NET desktop development**” to install the necessary components.
3. Click “**Install**” and wait for the process to complete.

4. Creating Your First Project

Step 1: Open Visual Studio

1. Launch **Visual Studio 2019** from the Start menu.
2. On the **Welcome Screen**, click “**Create a New Project**”.

Step 2: Configure Project Settings

1. Select “**Console App (.NET Core)**” and click **Next**.
2. Enter a project name (e.g., “**AdditionApp**”).
3. Choose a save location and click “**Create**”.

5. Writing a Simple Program

Replace the default code with the following **C# program**:

csharp

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using System;

class Program

{

 static void Main()

 {

```

Console.Write("Enter first number: ");
int num1 = int.Parse(Console.ReadLine());

Console.Write("Enter second number: ");
int num2 = int.Parse(Console.ReadLine());

int sum = num1 + num2;
Console.WriteLine("The sum is: " + sum);
}
}

```

Step 1: Understanding the Code

- The **Console.WriteLine()** function prompts the user for input.
- **int.Parse(Console.ReadLine())** converts the input into an integer.
- The program calculates the sum and displays it using **Console.WriteLine()**.

Step 2: Running the Program

1. Click the **Start button (▶)** in Visual Studio or press **F5**.
2. Enter two numbers when prompted.
3. The program will display their sum.

6. Troubleshooting Guide

Issue	Possible Cause	Solution
Error: "System.FormatException"	User entered non-numeric input	Ensure numbers are entered correctly
Program closes instantly	No Console.ReadKey(); used	Add Console.ReadKey(); at the end of the code

7. Conclusion

You have successfully installed **Visual Studio 2019** and written a basic **C# program**. To explore further, consider learning about **loops**, **conditionals**, and **object-oriented programming**.

For advanced topics, visit [Microsoft Docs](#).
