

Visual Studio



SoftUni Team
Technical Trainers



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Software University

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#prgm-for-qa

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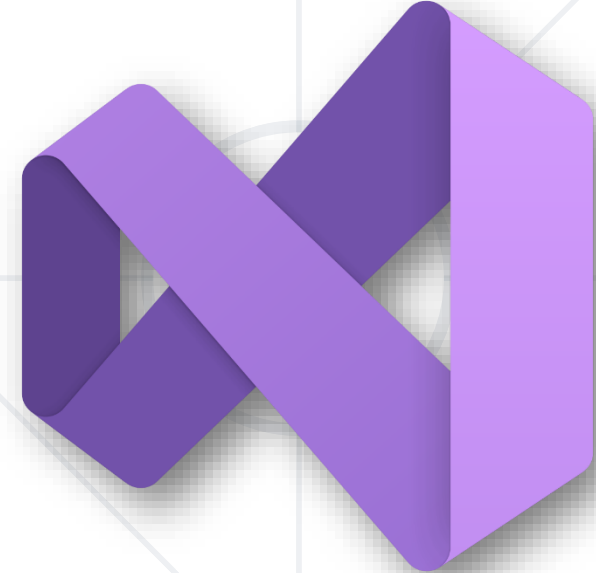




Integrated Development Environments (IDEs)

Programming Languages and IDEs

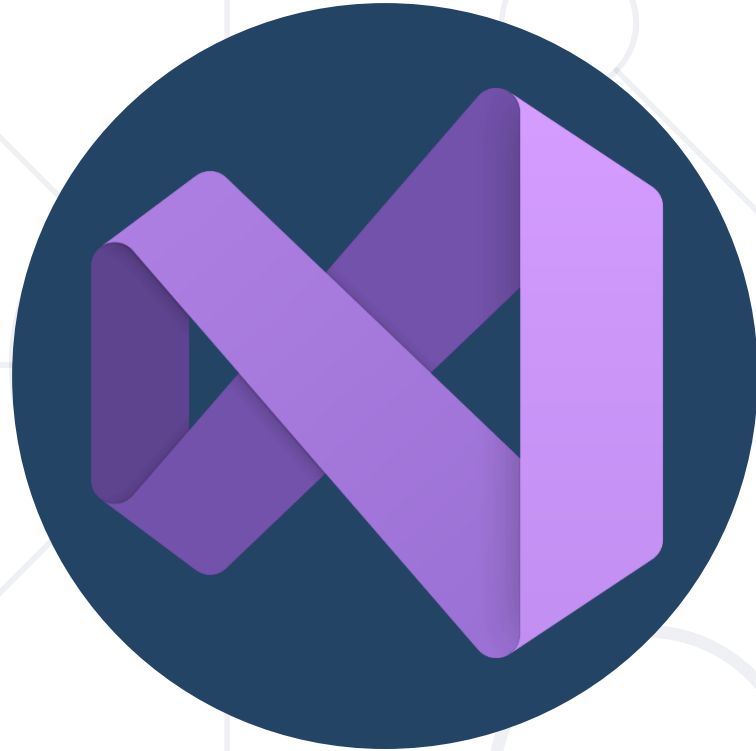
- To write programs, we need an **IDE**
 - For **C#** →
 - **Visual Studio**
 - **Raider**
 - **VS Code**
 - For **Java** → **IntelliJ IDEA, Eclipse NetBeans**
 - For **Python** → **PyCharm / Eclipse / VS Code**
 - For **JavaScript** → **WebStorm / VS Code**



Integrated Development Environments (IDE)

- **Integrated Development Environments (IDE)** simplify software development
- **IDEs** save time and eases the process of coding
 - Writing, running, testing and debugging the code
- In our **C#** lessons, we shall use **Visual Studio Community 2022**
 - Free, open-source IDE from Microsoft
<https://visualstudio.microsoft.com/>

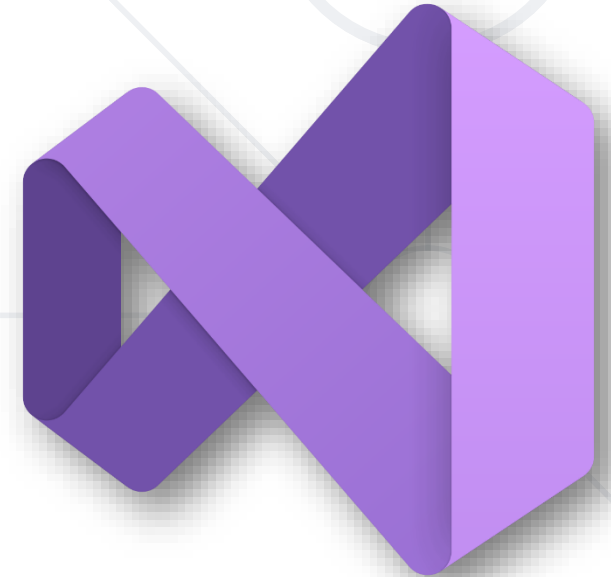
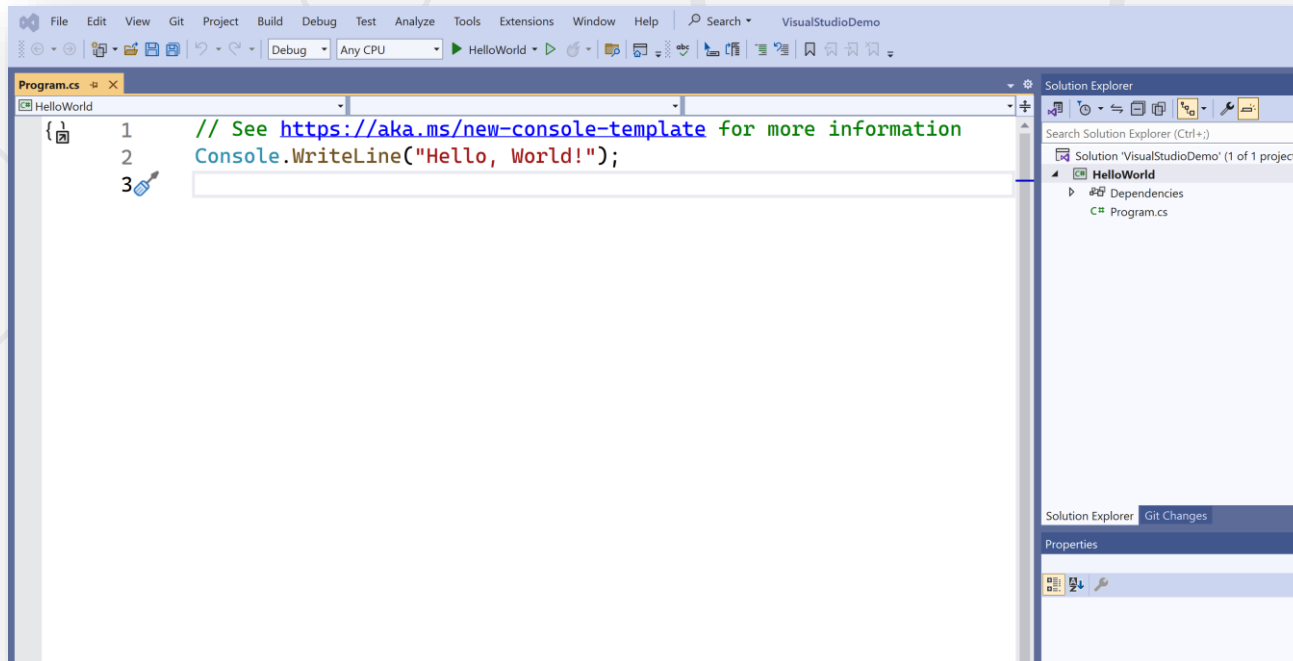




Visual Studio

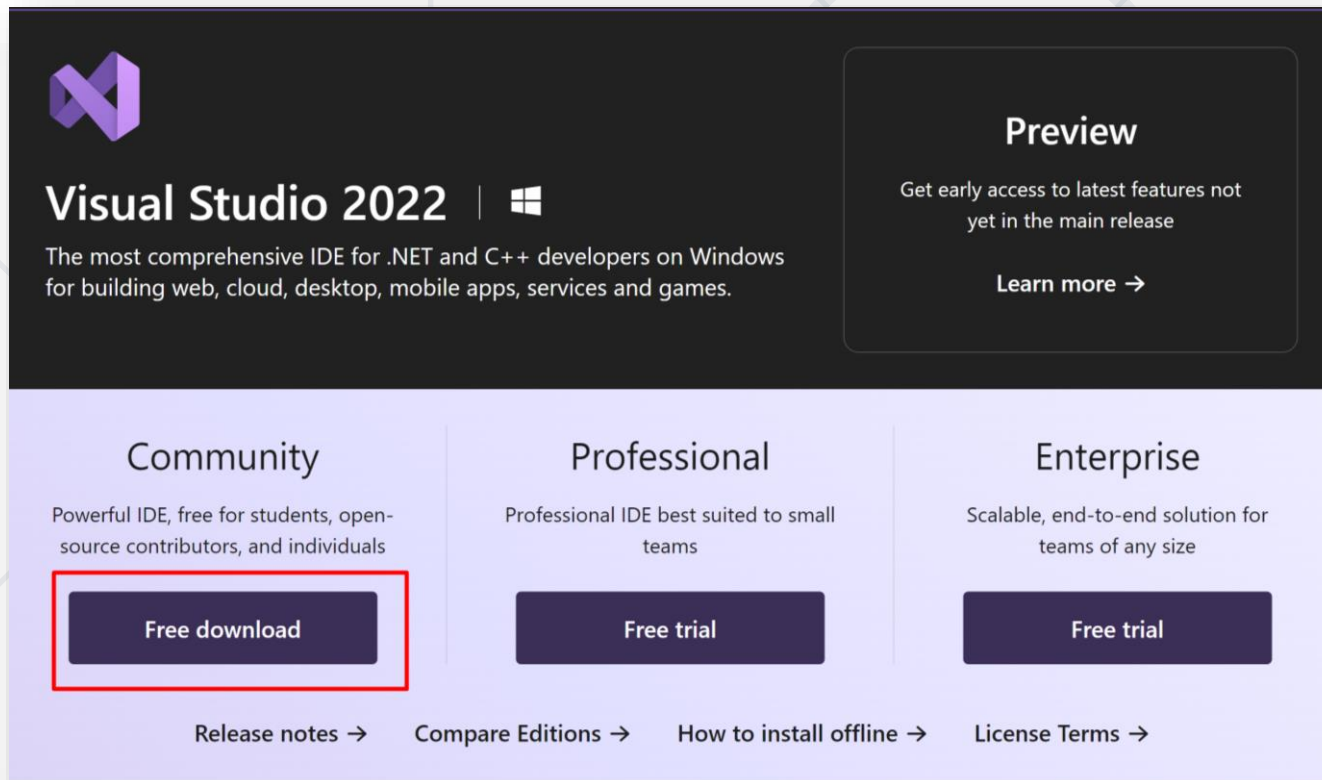
What is Visual Studio

- **Visual Studio** is a powerful IDE for C# developers
 - Runs in Windows and macOS



Installing Visual Studio Community

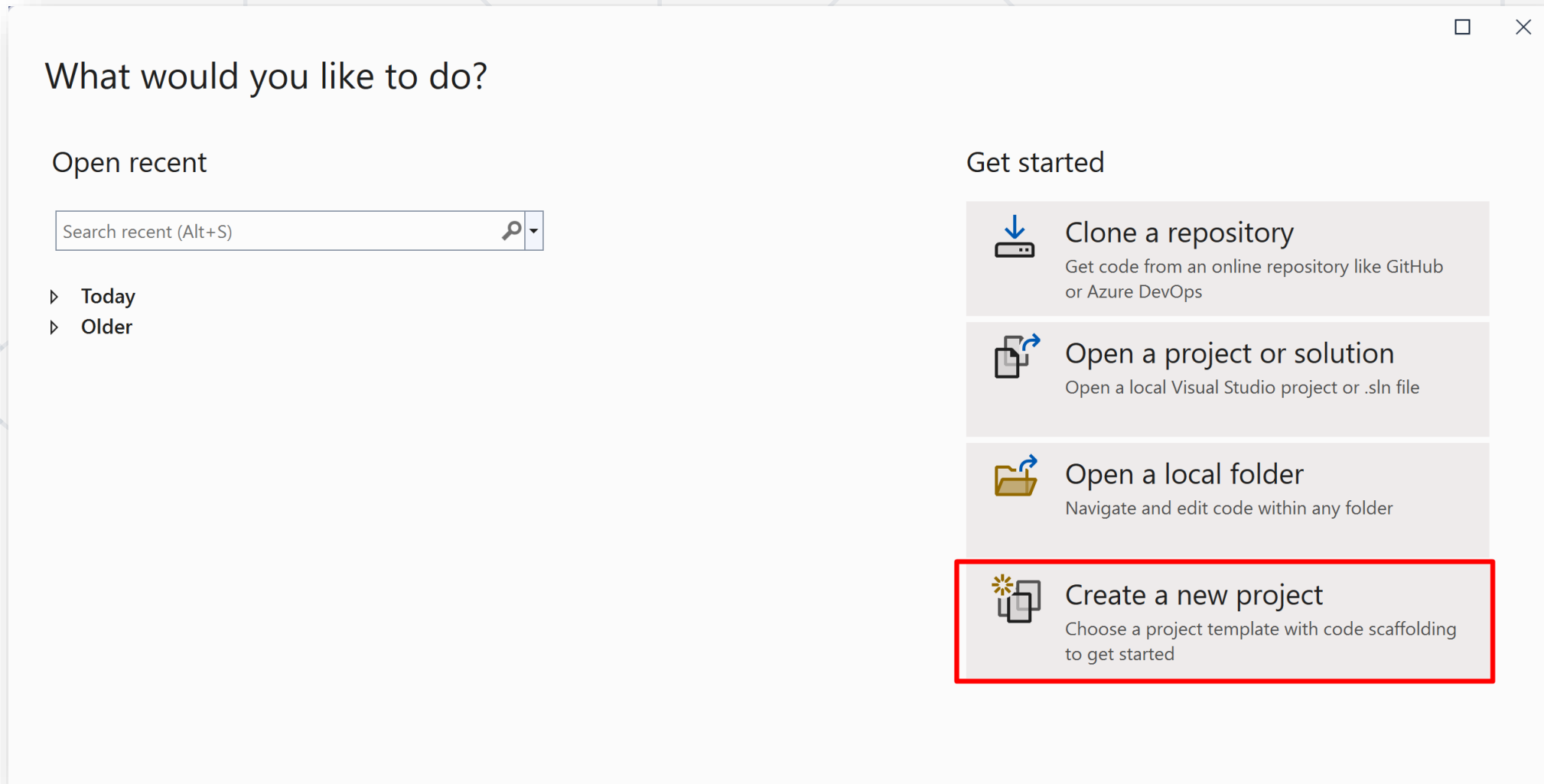
- Download the Visual Studio installer and follow the instructions

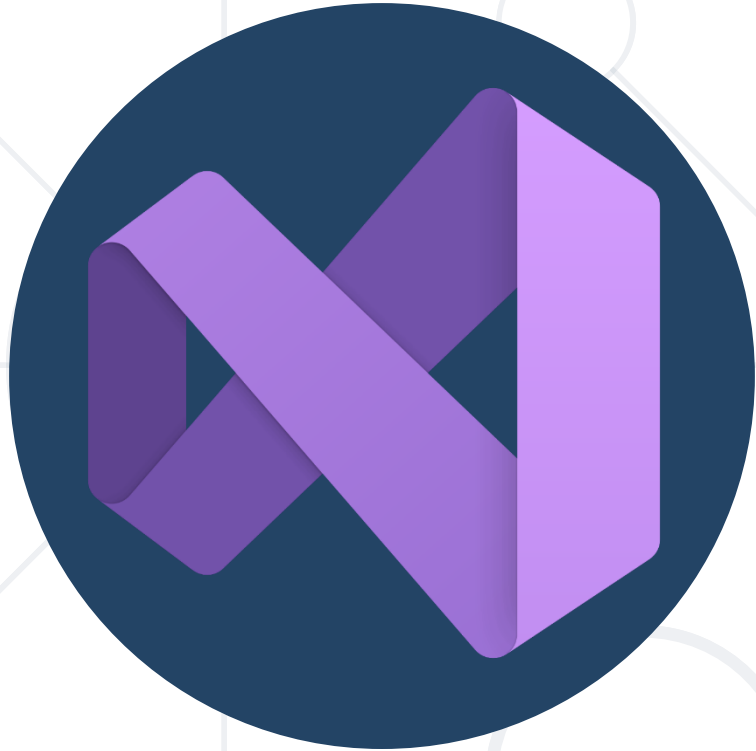


Choose the free
"Community" edition

<https://visualstudio.microsoft.com/downloads>

Running Visual Studio



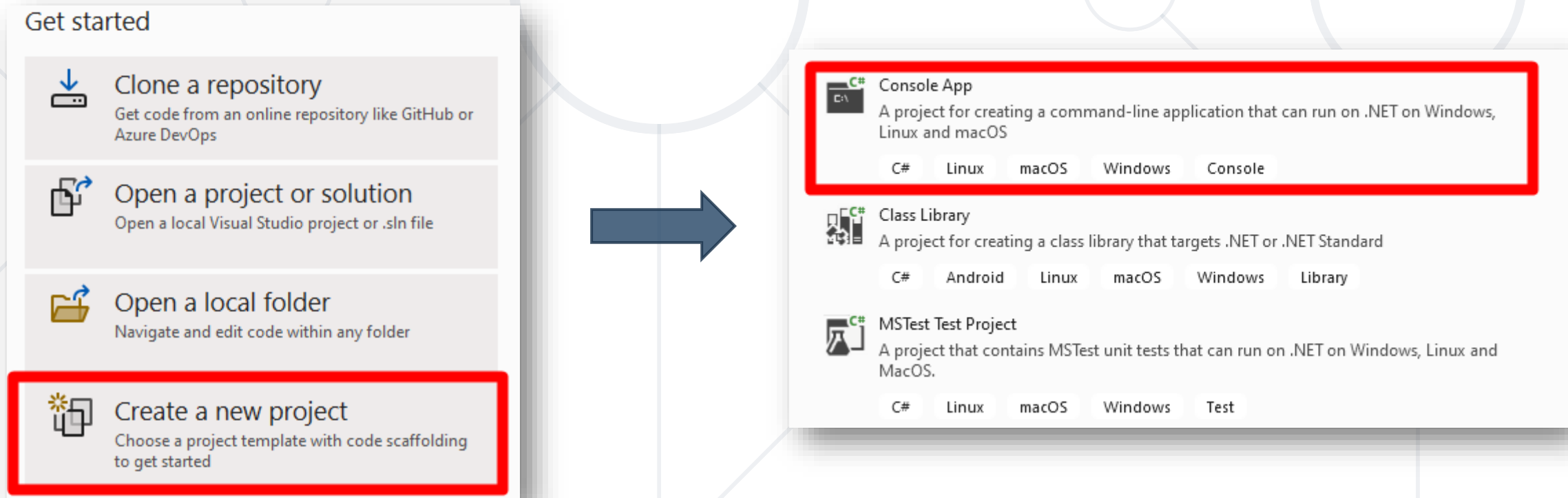


Creating a Console App

Creating a Console Application in Visual Studio

- Create new Console Application in Visual Studio:

[Create a new project] → [C# Console App]



The image illustrates the steps to create a new console application in Visual Studio. It shows the 'Get started' dialog on the left and the 'New Project' dialog on the right, connected by a large blue arrow.

Get started dialog:

- Clone a repository
Get code from an online repository like GitHub or Azure DevOps
- Open a project or solution
Open a local Visual Studio project or .sln file
- Open a local folder
Navigate and edit code within any folder
- Create a new project**
Choose a project template with code scaffolding to get started

New Project dialog:

- C# Console App**
A project for creating a command-line application that can run on .NET on Windows, Linux and macOS
C# Linux macOS Windows Console
- C# Class Library
A project for creating a class library that targets .NET or .NET Standard
C# Android Linux macOS Windows Library
- C# MSTest Test Project
A project that contains MSTest unit tests that can run on .NET on Windows, Linux and macOS.
C# Linux macOS Windows Test

Creating a Console Application in Visual Studio

■ Configure your new project

Configure your new project

Console App C# Linux macOS Windows Console

Project name
HelloWorld

Location
C:\Users\j353529\source\repos

Solution name ⓘ
VisualStudioDemo

Configure your new project

Console App C# Linux macOS Windows Console

Project name
HelloWorld

Location
C:\Users\j353529\source\repos

Solution name ⓘ
VisualStudioDemo

☐ Place solution and project in the same directory

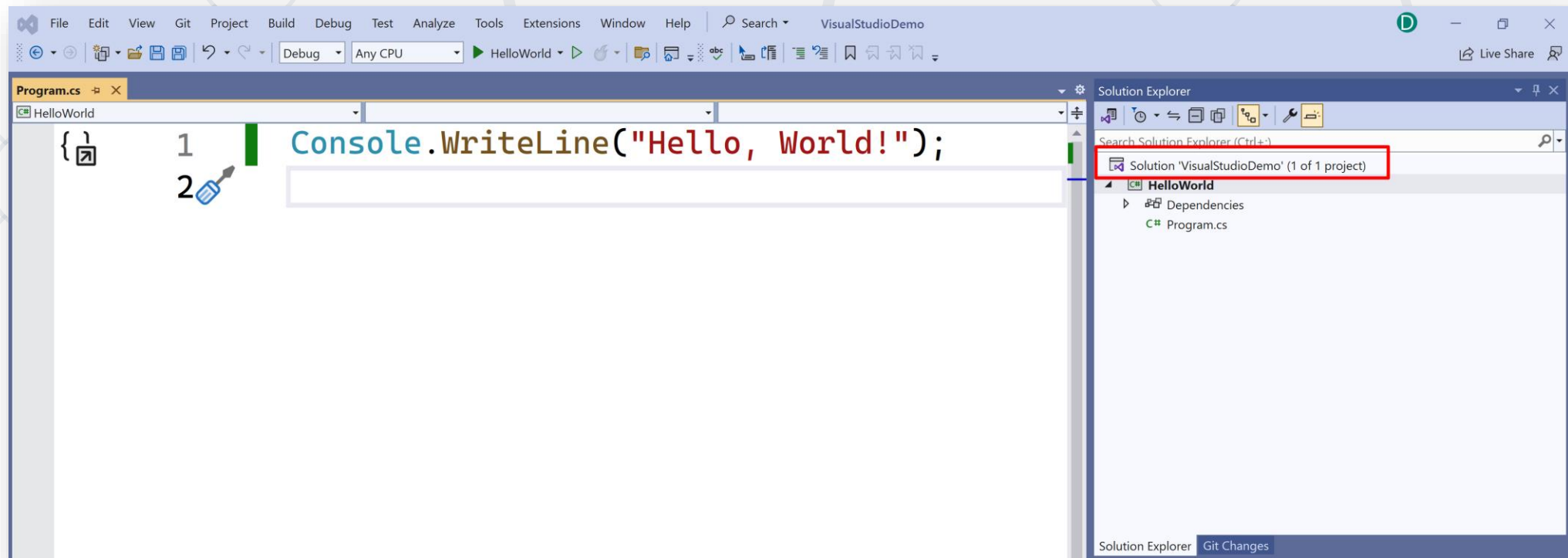
Project will be created in "C:\Users\j353529\source\repos\VisualStudioDemo\HelloWorld"

⚠ This directory is not empty.

Back Next

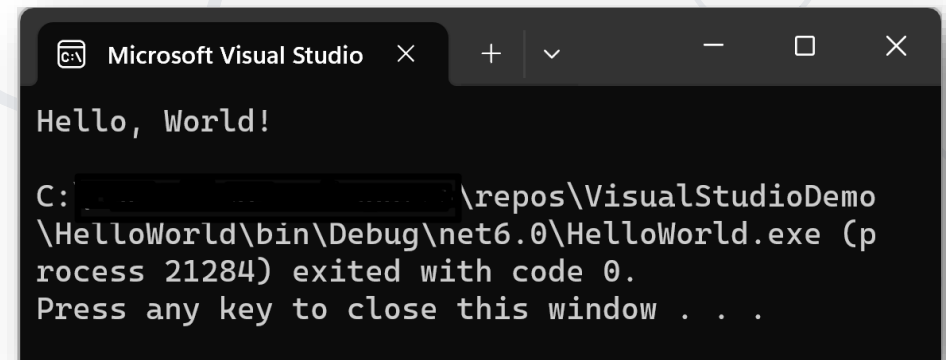
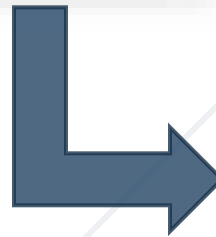
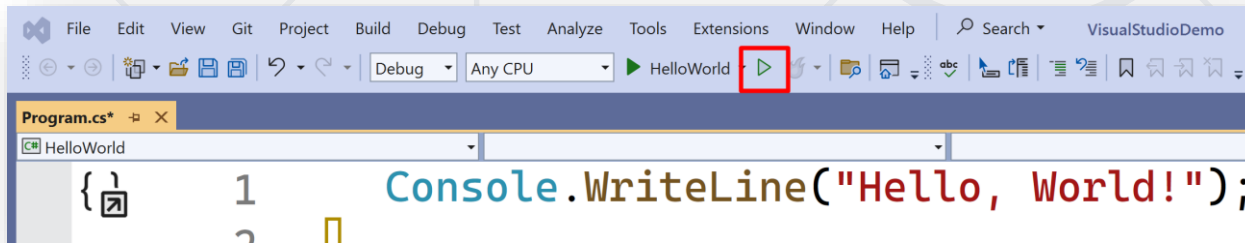
Solutions in Visual Studio

- The solution explorer holds the **project files**
- The project source code consists of **.cs** files (C# classes)



Starting the Program in Visual Studio

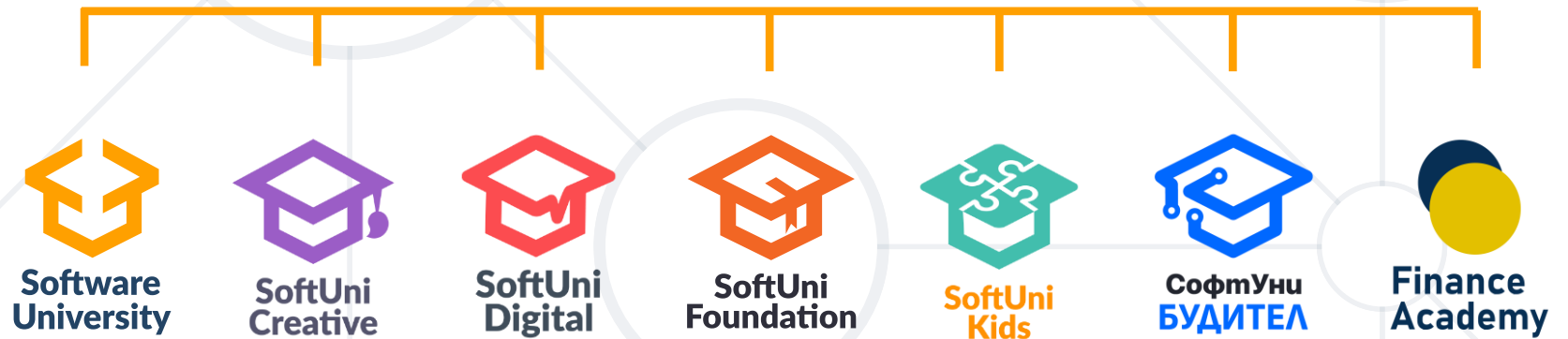
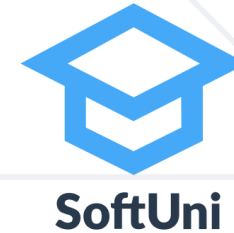
- To start the program, press **[Ctrl + F5]**
 - If there are no errors, the program will be launched
- The result will appear in the console (terminal window):



- IDEs **save time** and **eases** the process of coding
- Visual Studio is **powerful** and **open-source** IDE developed by Microsoft



Questions?



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