

Visual Studio



SoftUni Team
Technical Trainers



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Software University

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#prgm-for-qa

Table of Contents

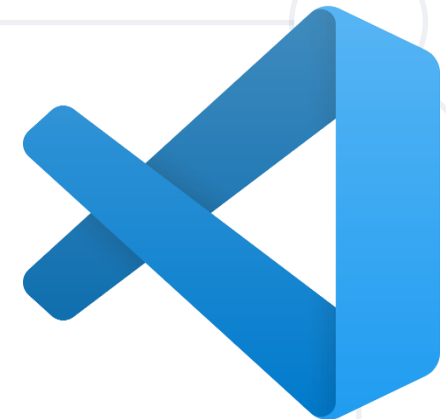
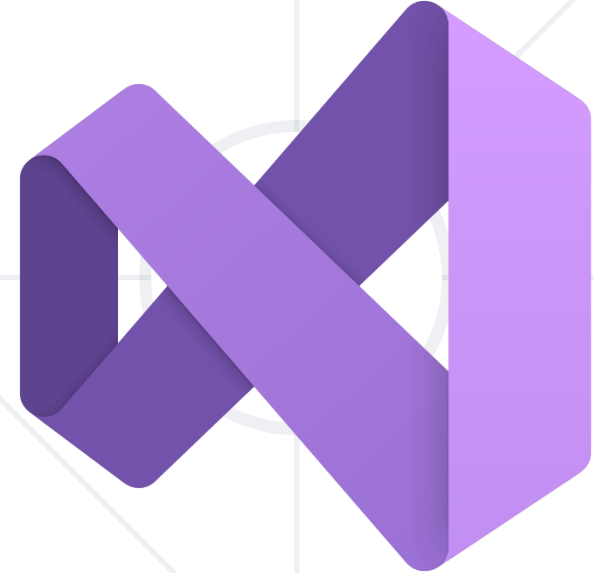
1. Integrated Development Environments
2. Visual Studio
3. Creating a Console App





Integrated Development Environments (IDEs)

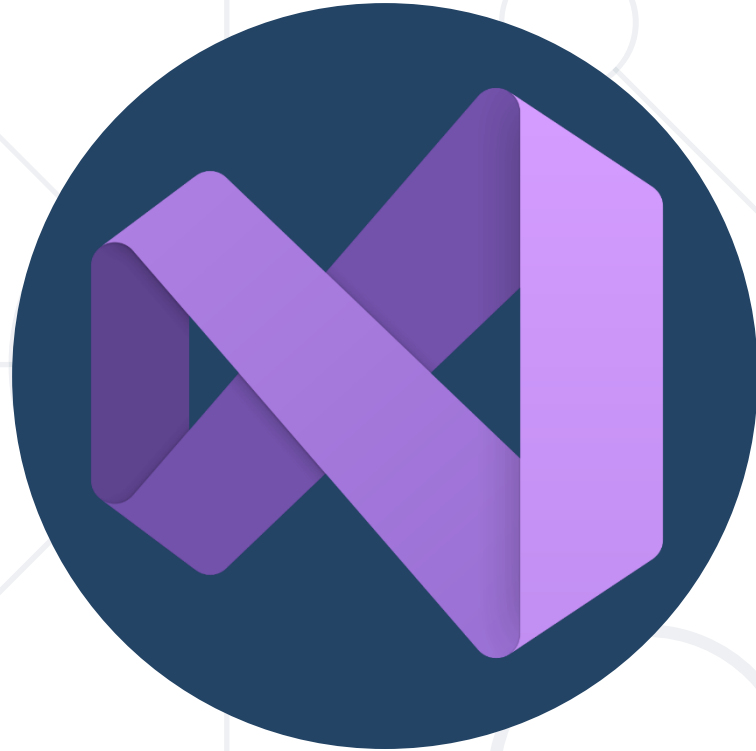
- To write programs, we need an **IDE**
 - For **C#** →
 - **Visual Studio**
 - **Raider**
 - **VS Code**
 - For **Java** → **IntelliJ IDEA, Eclipse NetBeans**
 - For **Python** → **PyCharm / Eclipse / VS Code**
 - For **JavaScript** → **WebStorm / VS Code**



- Integrated Development Environments (**IDE**) 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/>

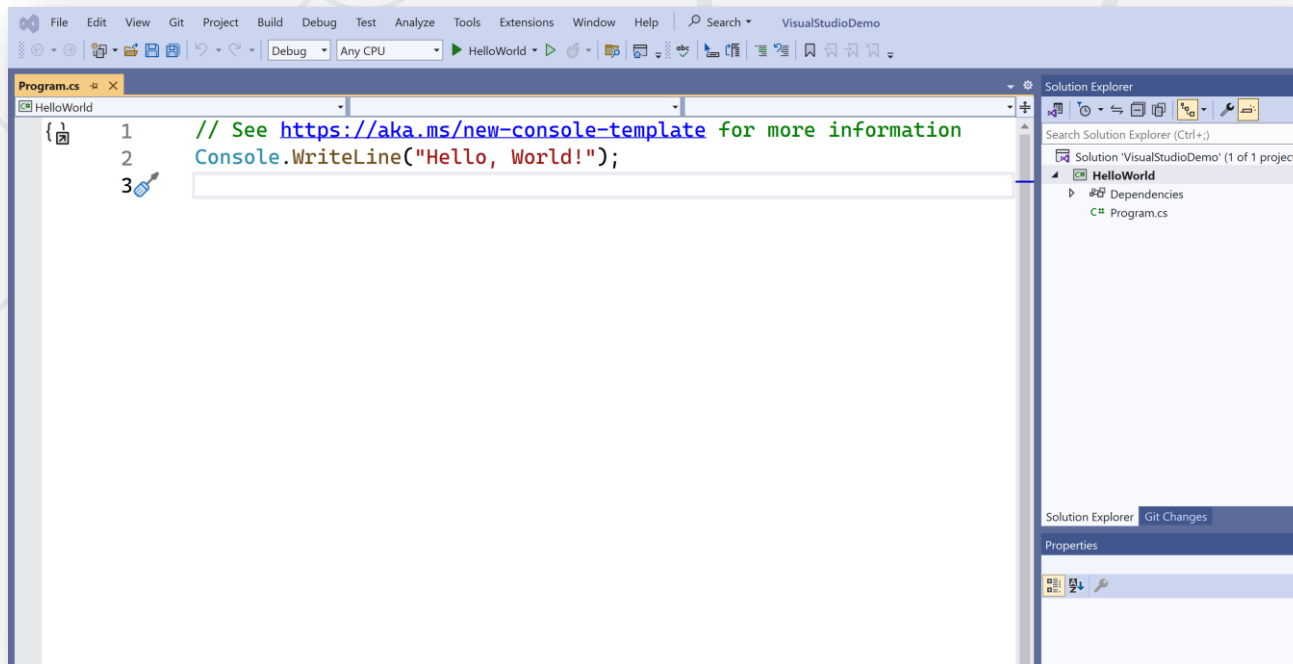




Visual Studio

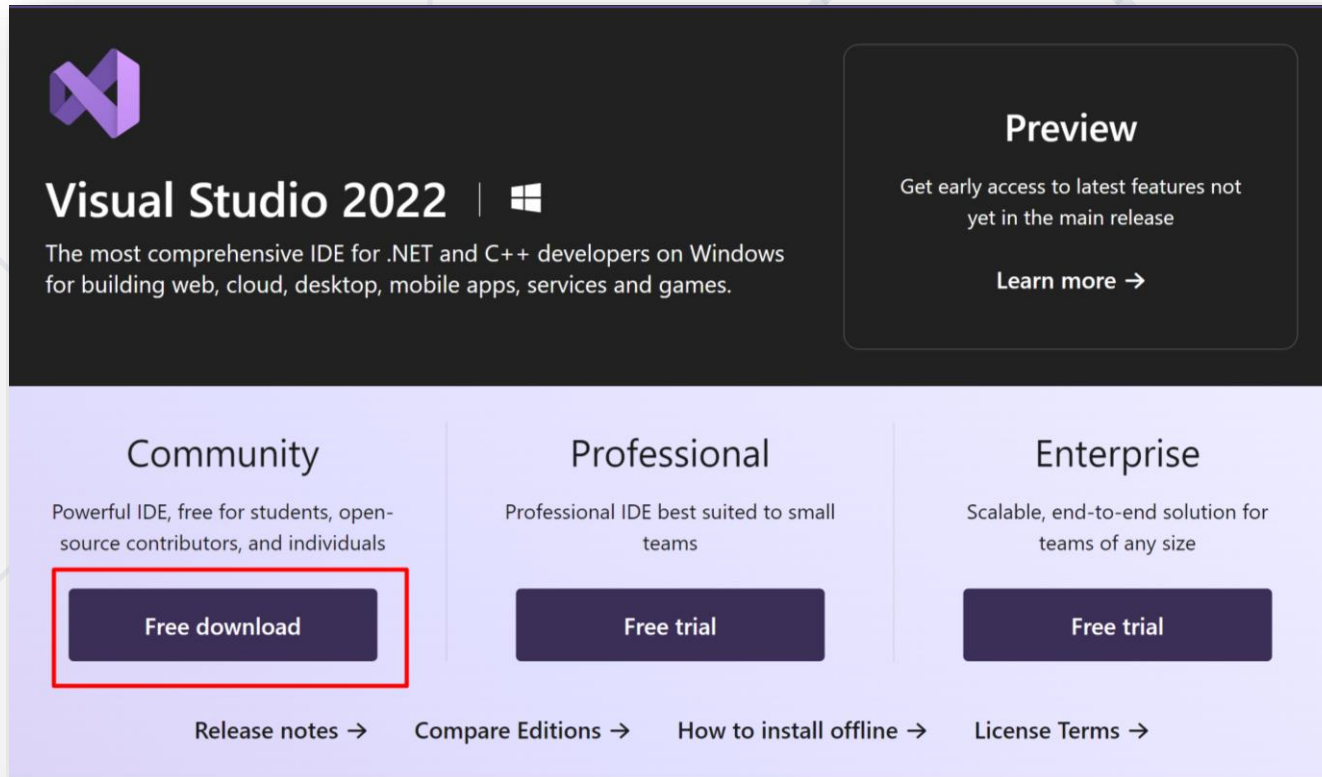
What is Visual Studio

- **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

What would you like to do?

Open recent

Search recent (Alt+S)



- Today
- Older

Get started



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



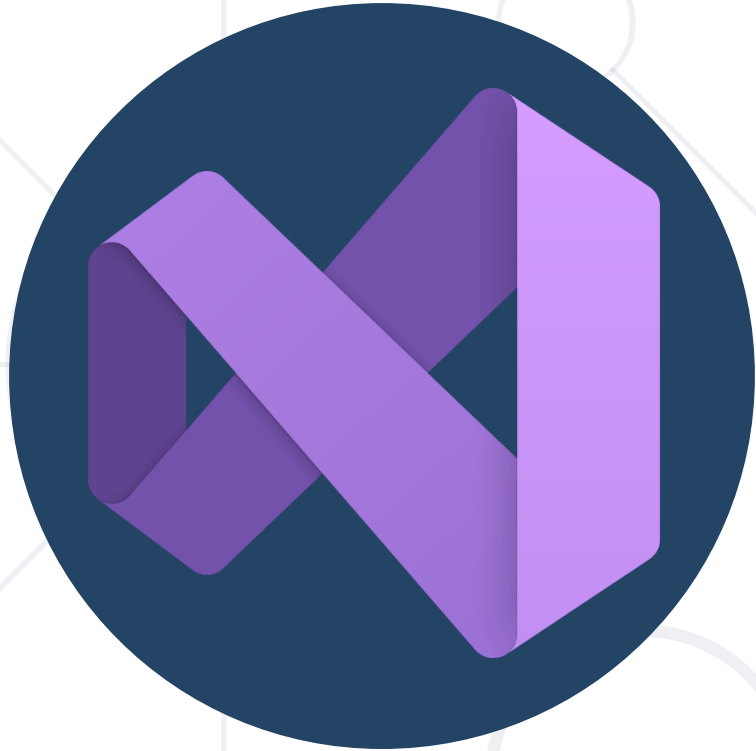
Open a local folder

Navigate and edit code within any folder



Create a new project

Choose a project template with code scaffolding to get started



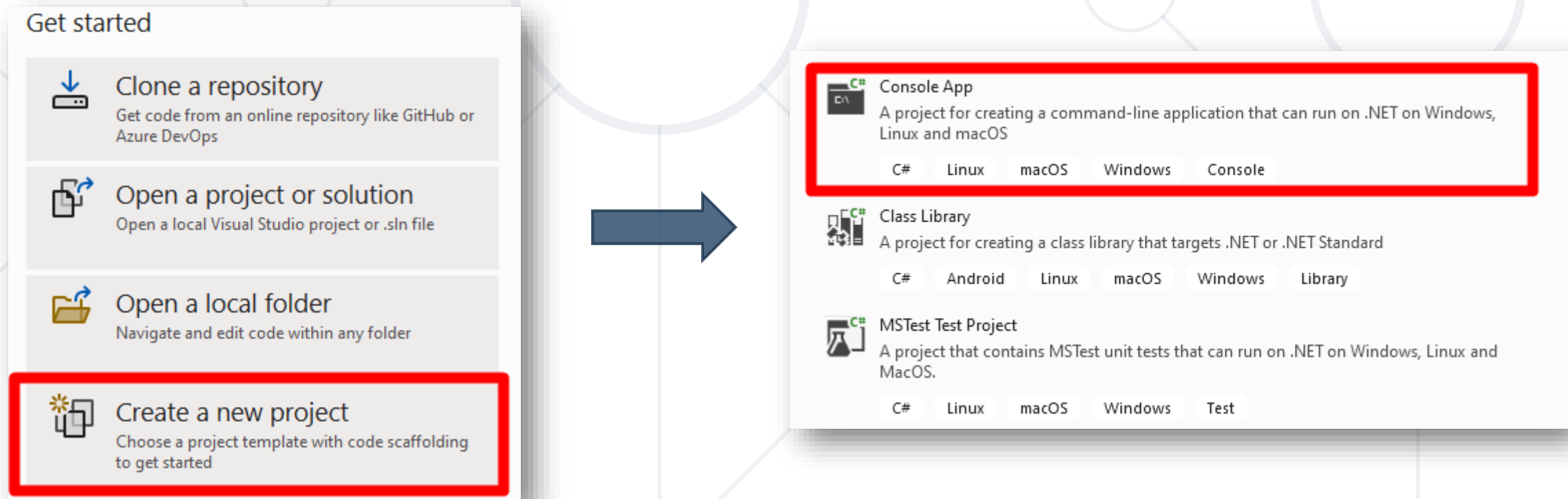
Creating a Console App

Creating a Console Application in Visual Studio



- Create new Console Application in Visual Studio:

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



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
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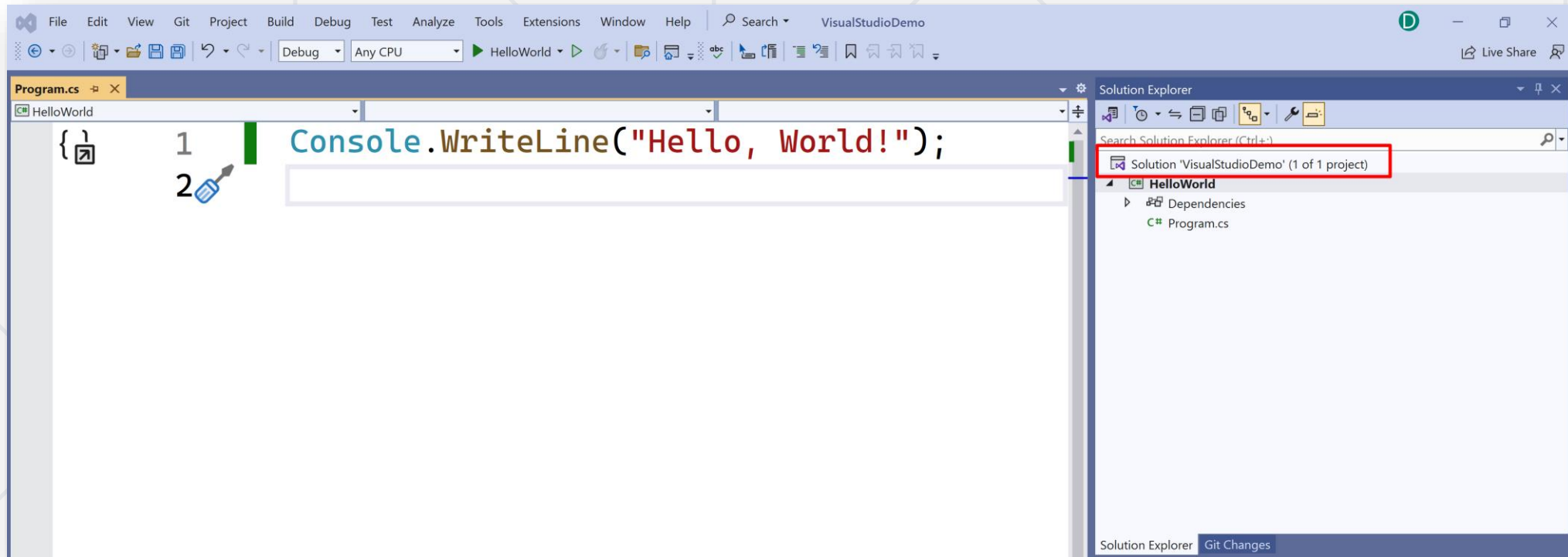
☐ Place solution and project in the same directory

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

⚠ This directory is not empty.

Back Next

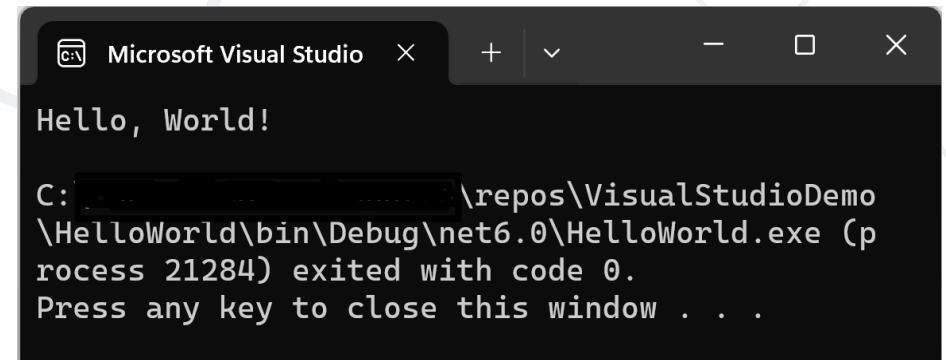
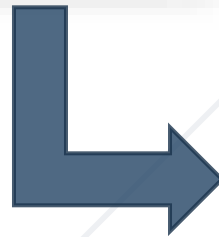
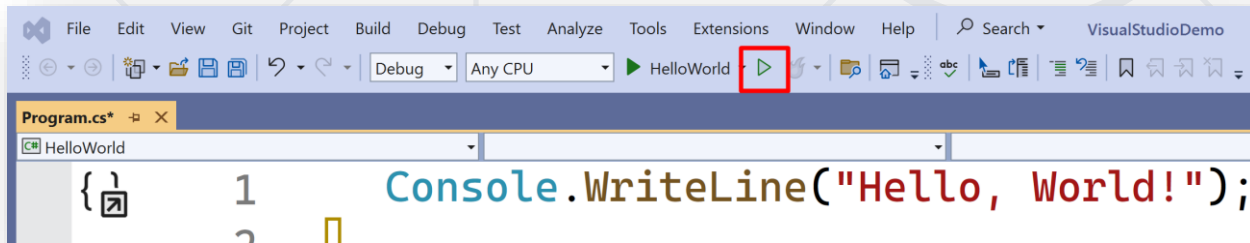
Solutions in Visual Studio



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

Starting the Program in Visual Studio

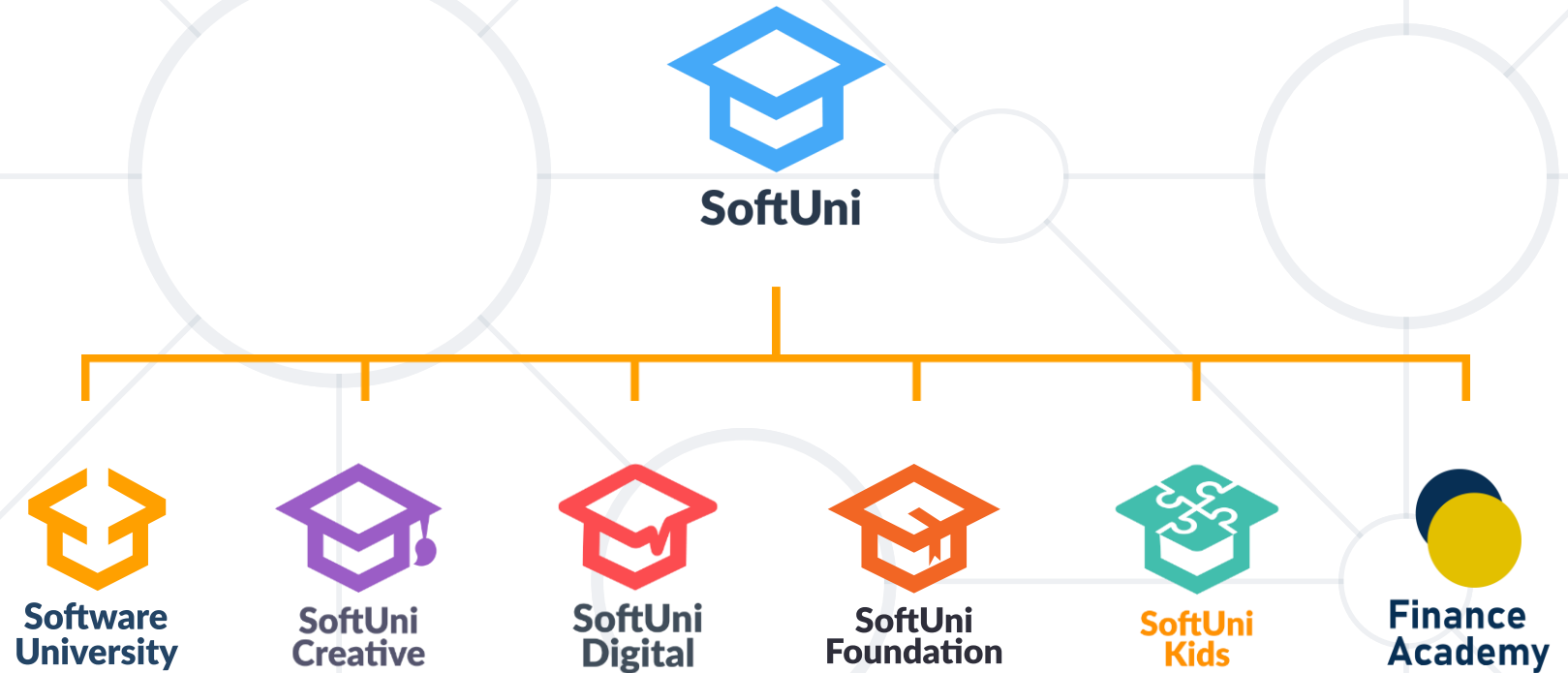
- To start the program, press **[Ctrl + F5]**
 - If there are no errors, the program will be launched
- The result will appear in the console (terminal window):



- 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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