Visual Studio

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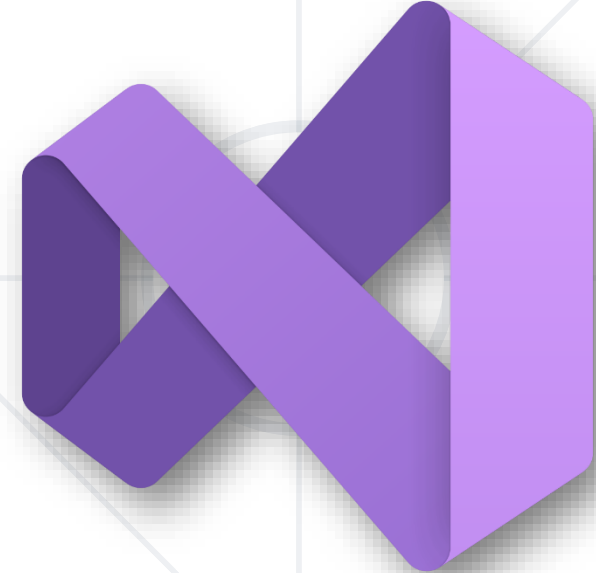# #prgm-for-qa

Table of Contents

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**
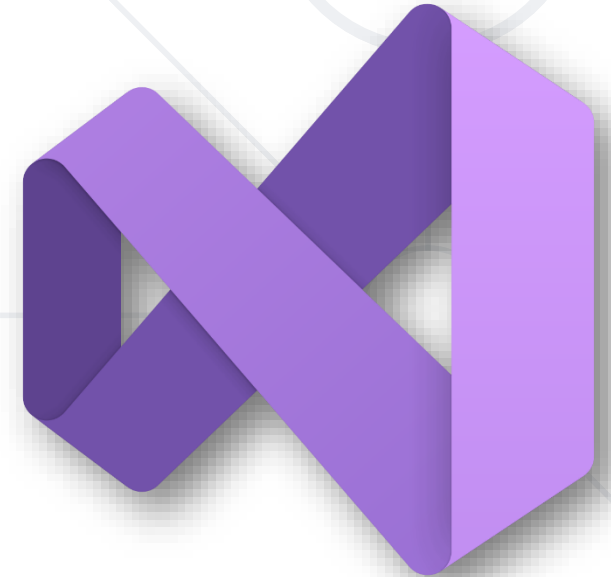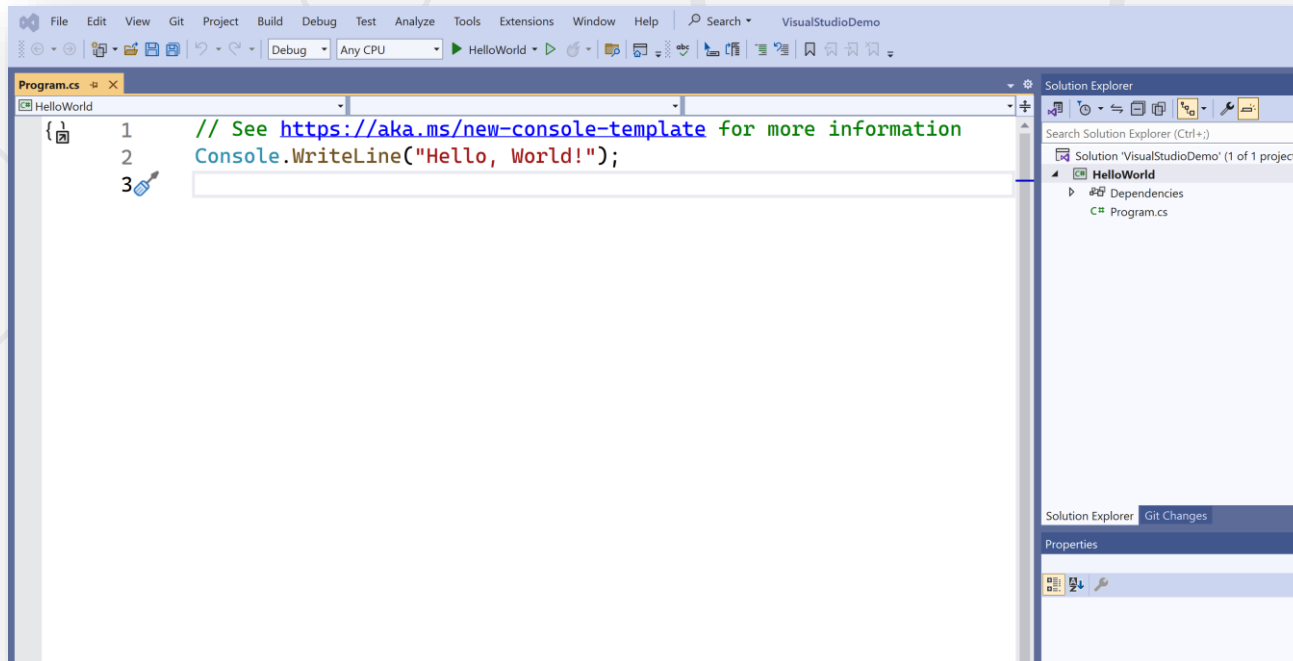
  - Free, open-source IDE from Microsoft
    https://visualstudio.microsoft.com/
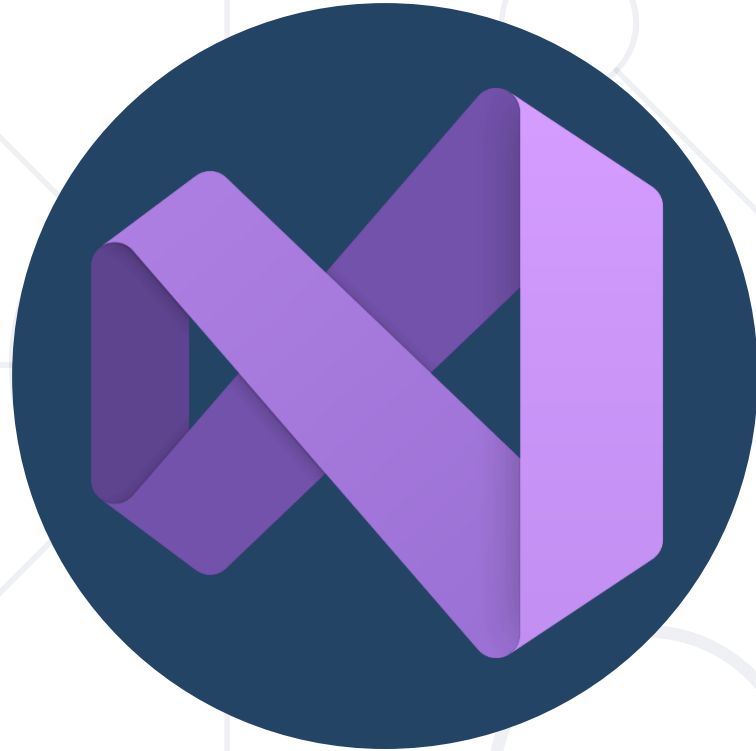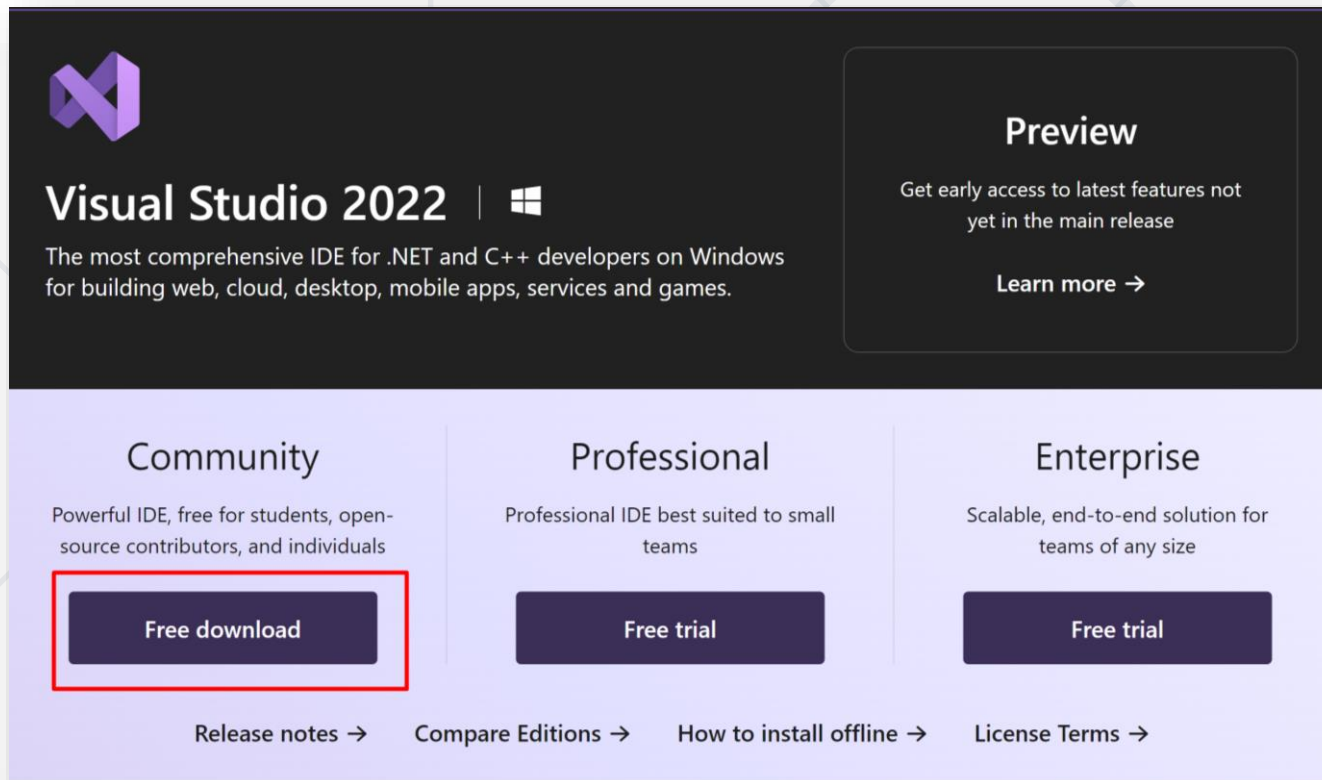
Visual Studio

What is Visual Studio

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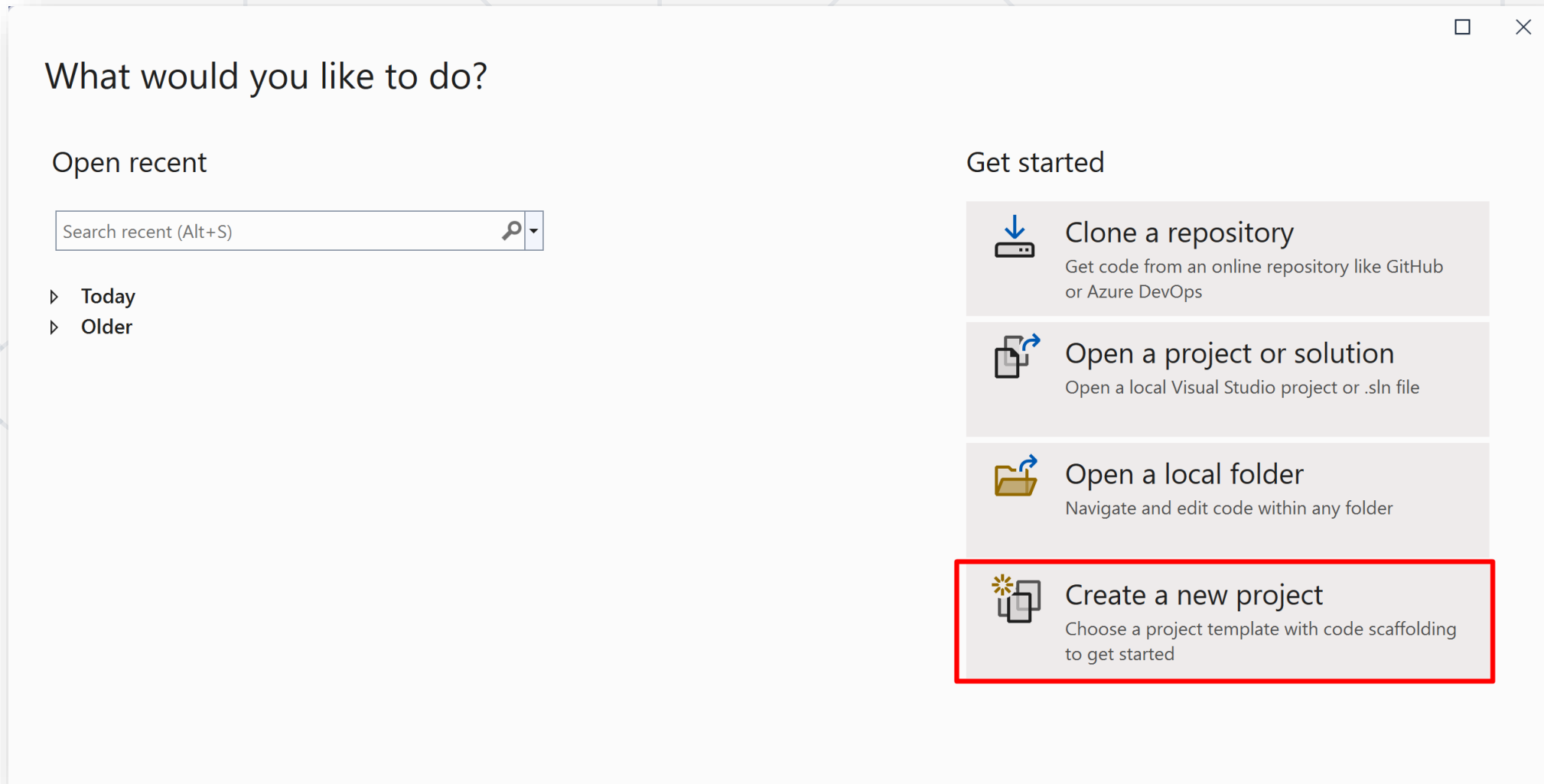   - Runs in Windows and macOS

Installing Visual Studio Community

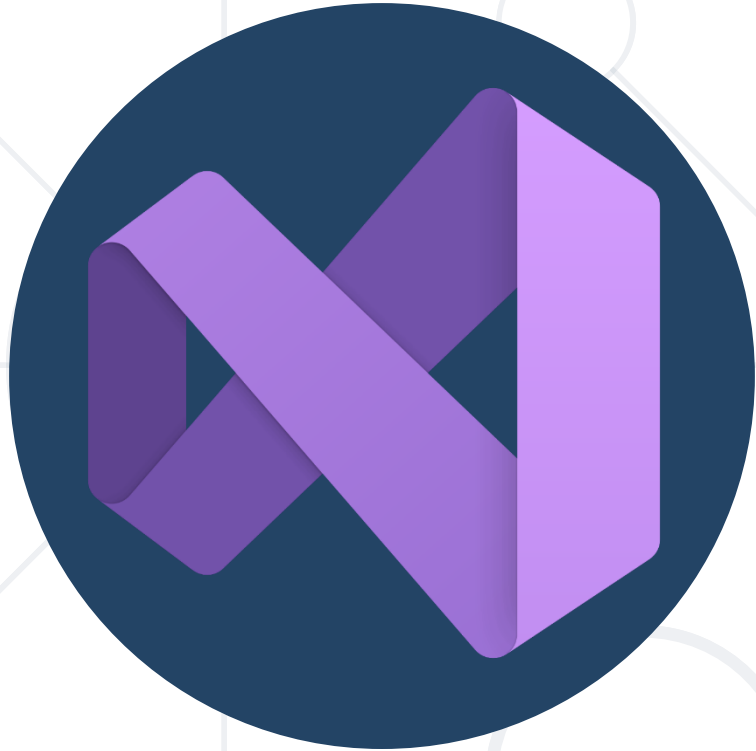- Download the Visual Studio installer and follow the instructions

Choose the free **"Community"** edition

https://visualstudio.microsoft.com/downloads
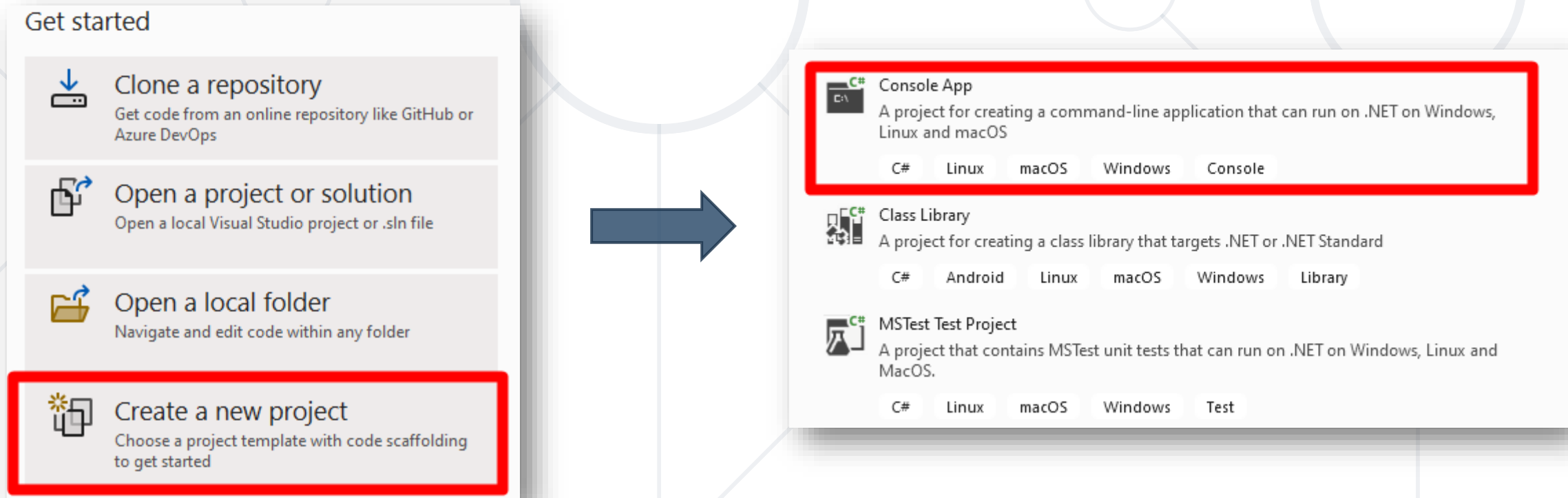
Running Visual Studio

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]

Creating a Console Application in Visual Studio

- Configure your new project

Solutions in Visual Studio

- The solution explorer holds the **project files**

- The project source code consists of **.cs** files (C# classes)
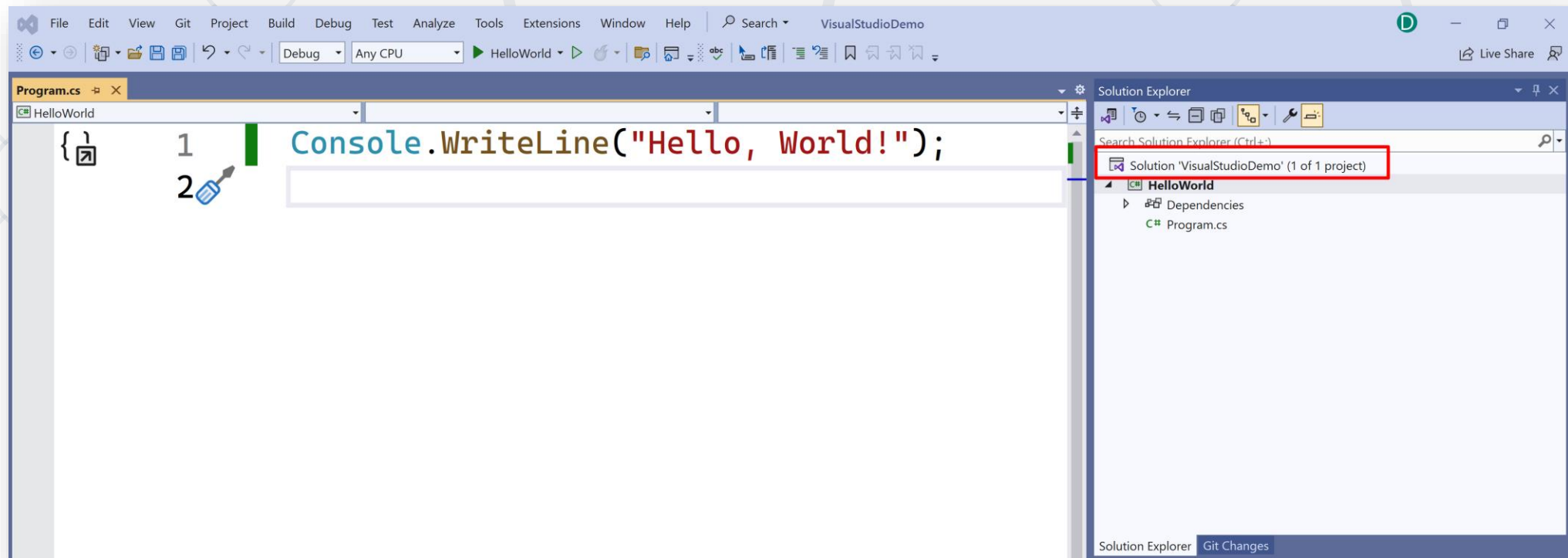
Starting the Program in Visual Studio

- To start the program, press **[Ctrl + F5]**
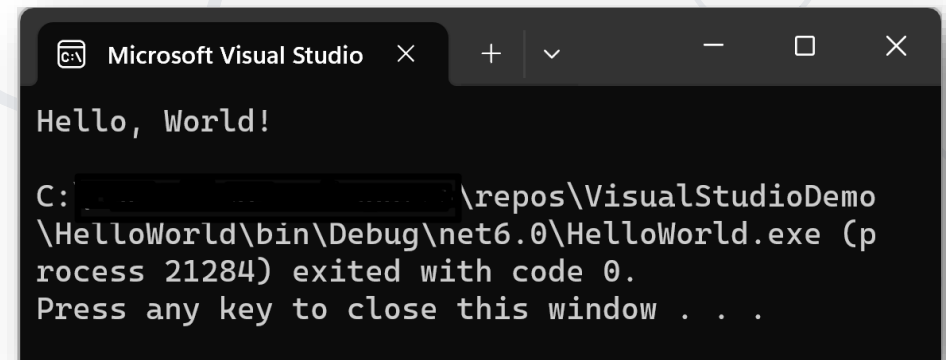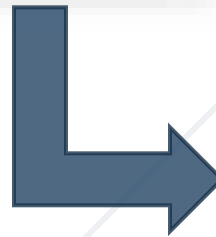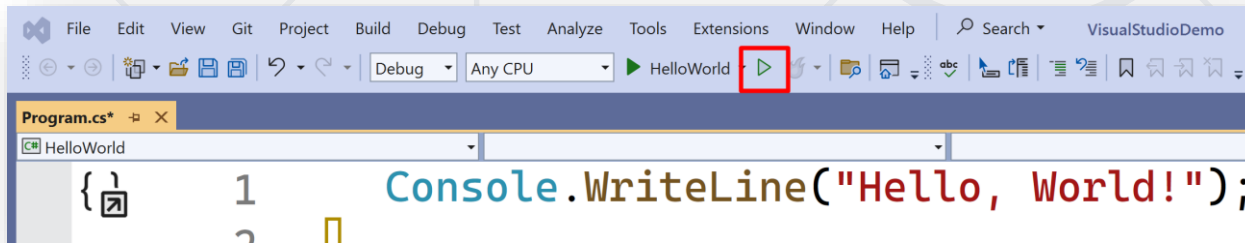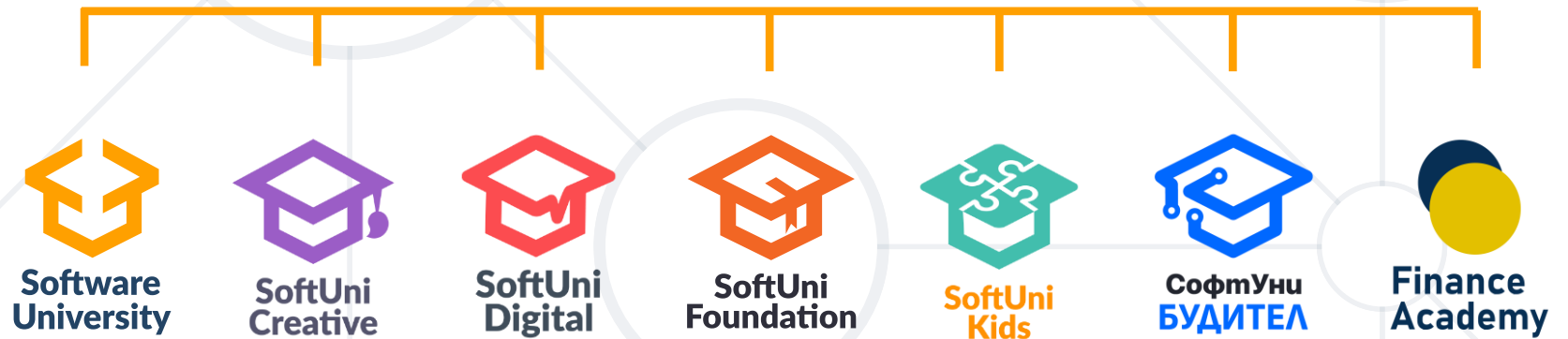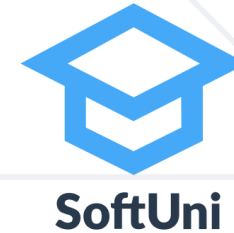
  - If there are no errors, the program will be launched

- The result will appear in the console (terminal window):

Summary

- **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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