Visual Studio/C# Getting Started

- **✓** Visual Studio 2022
- C# Basics

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Visual Studio

- Integrated Development Environment (IDE)
- Code Editor, Designer
- Debugger, Profiler
- Other tools
- Extensibility.

Projects

- Projects organised in solutions
- Project templates
 - Platform
 - Language
 - Framework
- File/Model templates.

- Create Command Line Tool
- "Hello World"
- Debugging

Variables

- <type> <name> [= <init value>]
- int i;
- string name = "Thomas";
- bool isGreen = false;
- string[] arrayOfString;
- Naming Convention: lowerCamelCase

Operator

• Arithmetic

- ++, --
- Logical
 - && (and)
 - ||(or)

Conditions

- if (<condition>) { <block>}
- else {<block>}

- Calculator
- Add, Sub

Functions

- <modifier> <type> <name>(<type> param, ...) {<block>}
- public int Add(int a, int b) { return a + b; }
- private void LogMessage() {}

Modifier

- private
- internal
- public
- protected
- (static)

- Calculator
- Extract methods

Iterations

- While
- For
- ForEach

• Implement "Sum"