

CSCI-1411 FUNDAMENTALS OF COMPUTING LAB

Microsoft Visual Studio 2012

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□ **Visual Studio**

- A suite of component-based software development tools and other technologies for building powerful, high-performance applications.
- <http://www.microsoft.com/en-us/download/developer-tools.aspx>
- Already installed on the Lab Computers

□ **Mircrosoft DreamSpark**

□ A website that provides a library of software by Microsoft.

□ <https://www.dreamspark.com/>

□ To ask for a DreamSpark account, contact Help CSE by email csehelp@ucdenver.edu

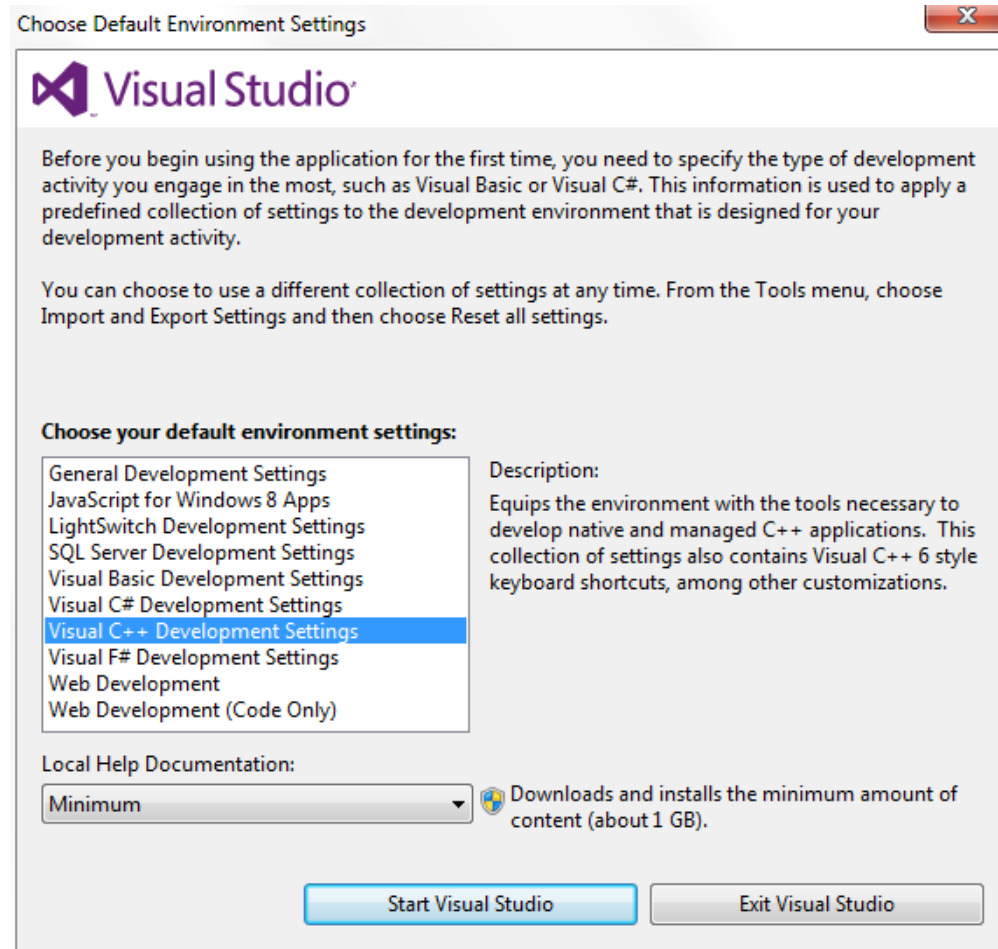
Microsoft Visual Studio 2012

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- To access the Visual Studio

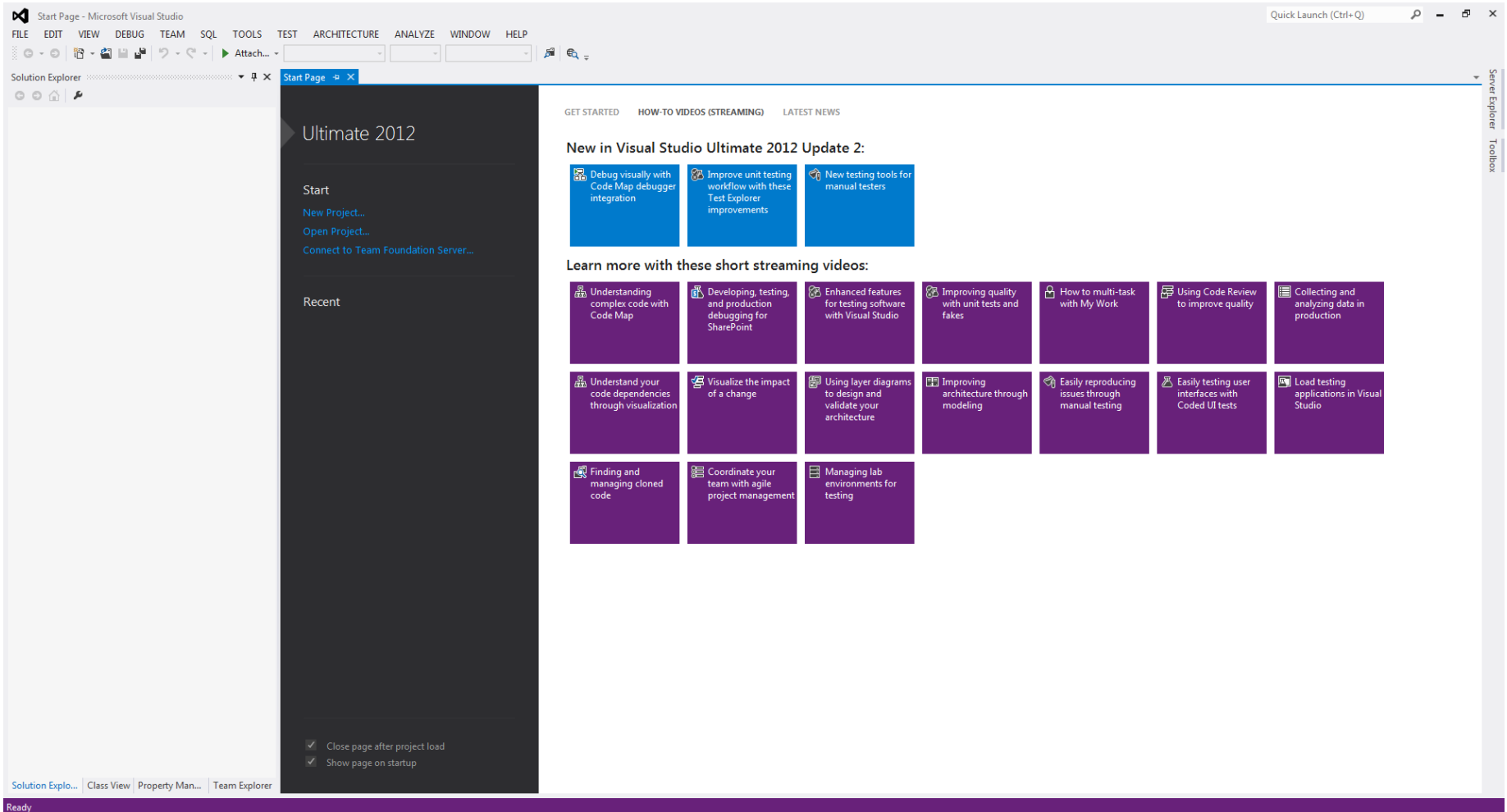
Start

- All Programs
- Microsoft Visual Studio 2012
- Visual Studio 2012



Microsoft Visual Studio 2012

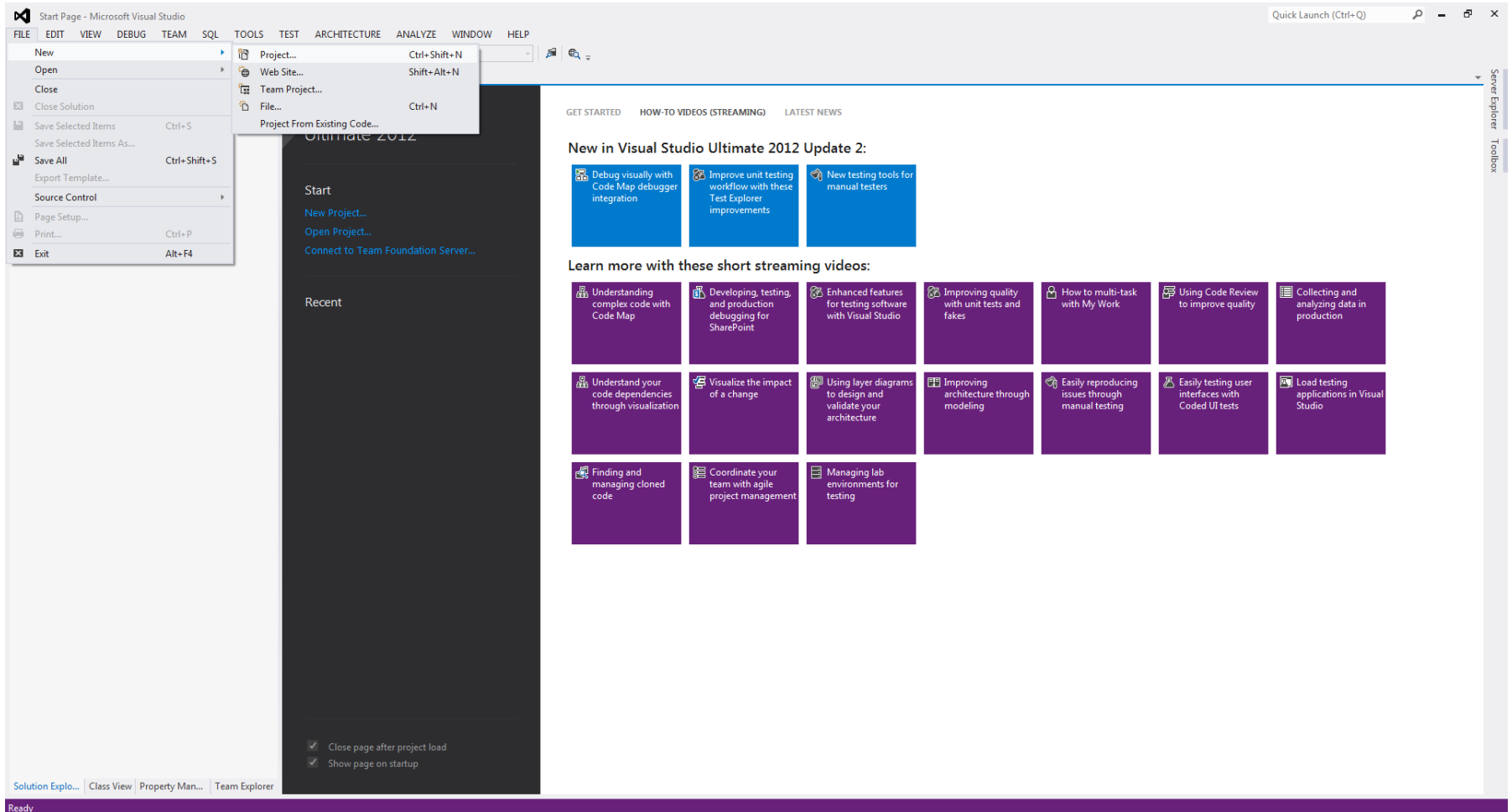
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Microsoft Visual Studio 2012

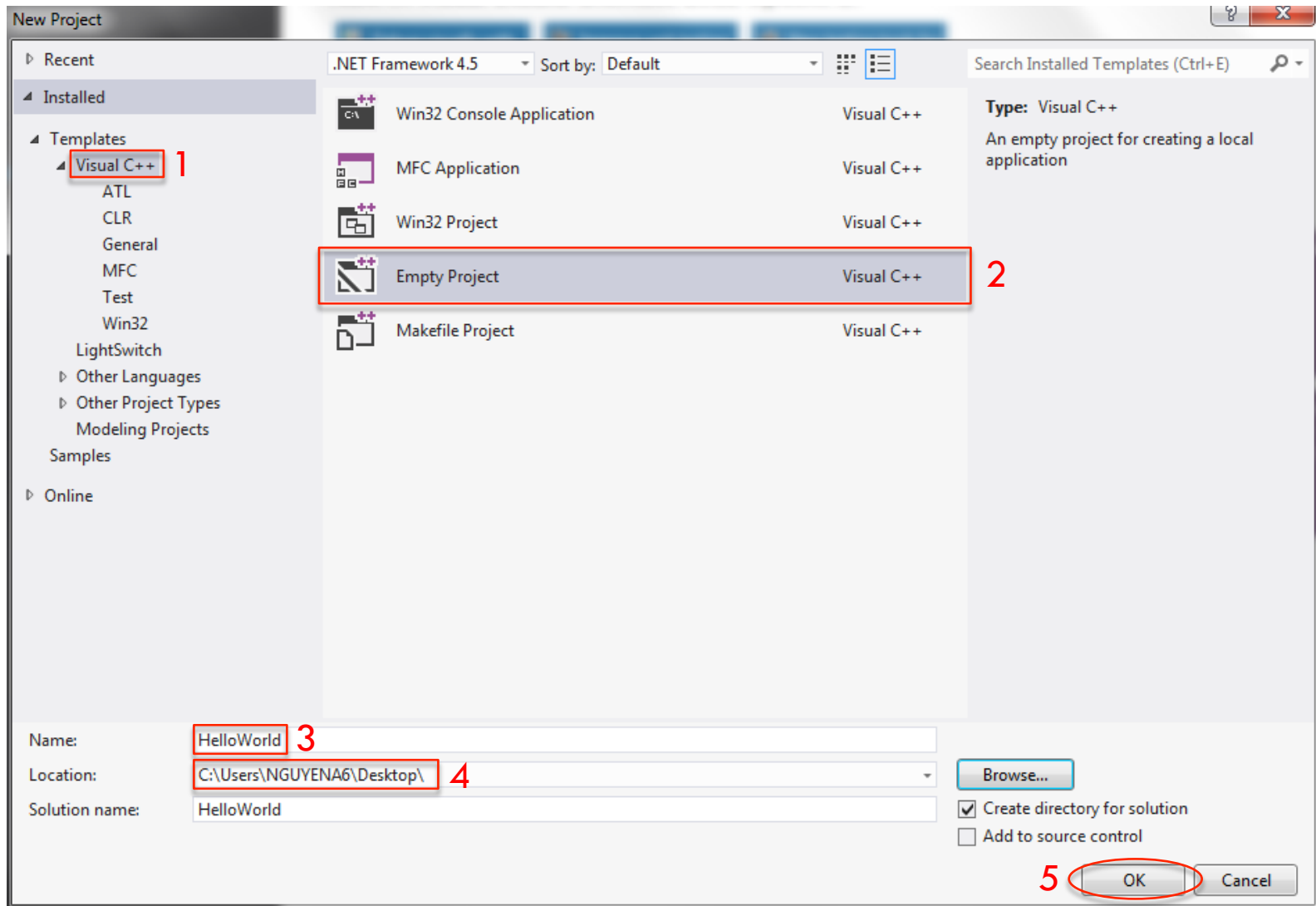
6

□ To create a New Project: File → New → Project ...



Microsoft Visual Studio 2012

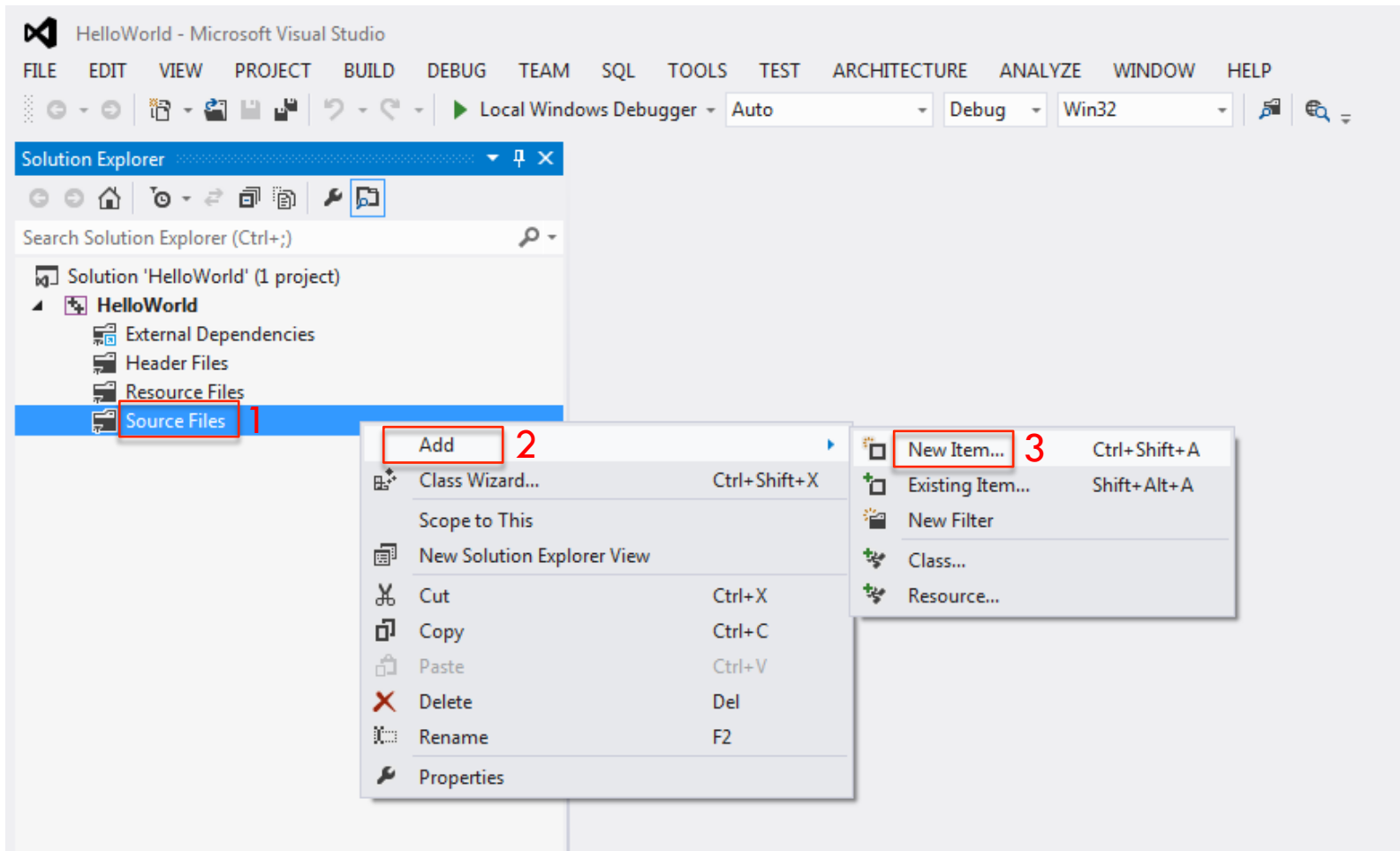
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Microsoft Visual Studio 2012

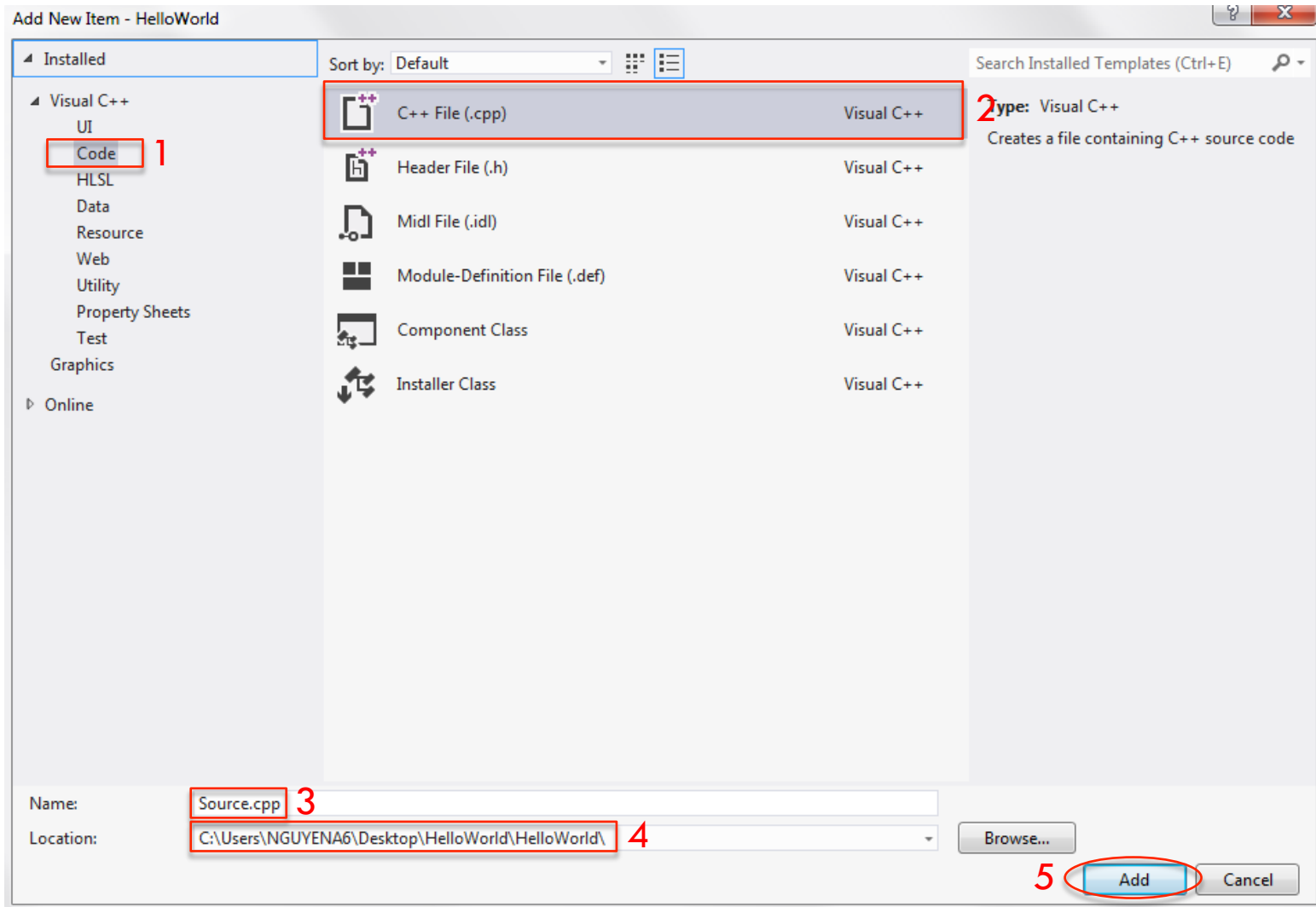
8

- To add a new .cpp file:



Microsoft Visual Studio 2012

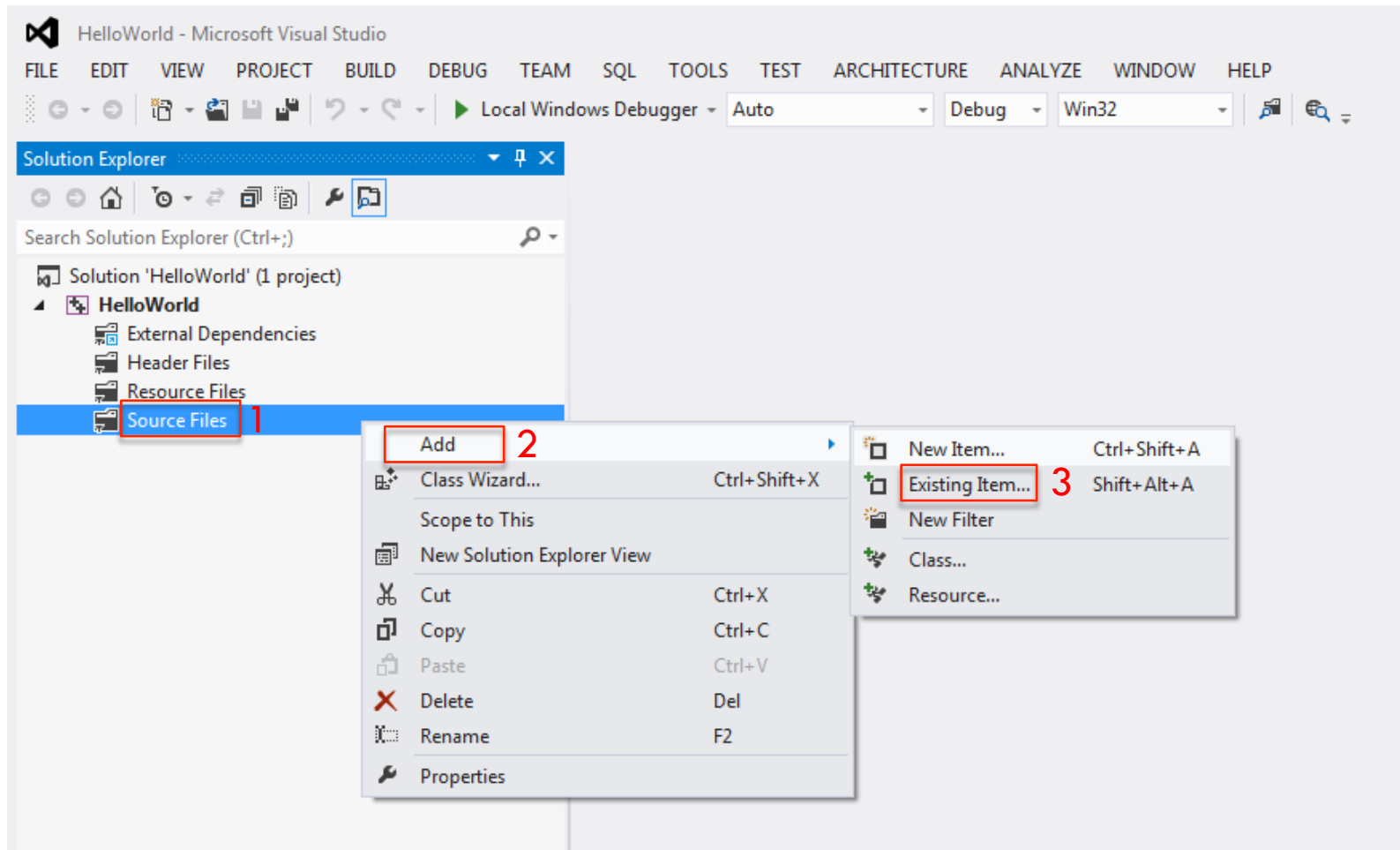
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Microsoft Visual Studio 2012

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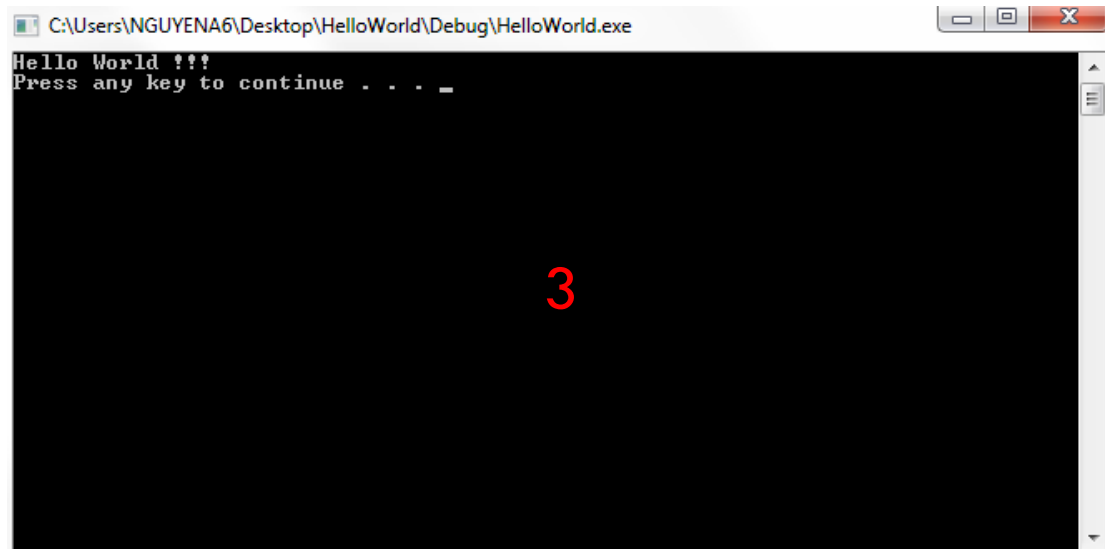
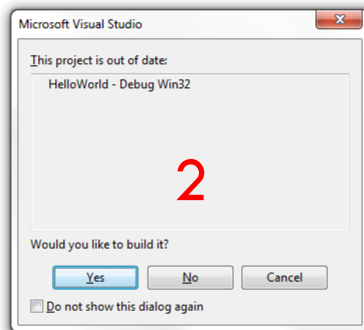
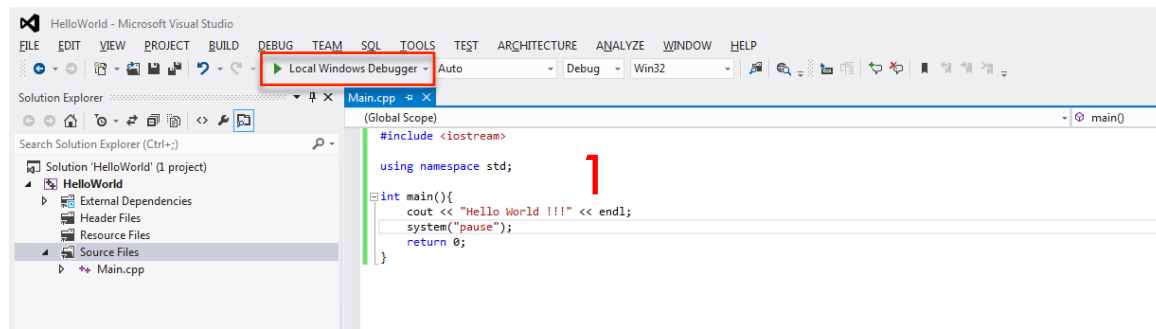
- To add an existing .cpp file:



Visual Studio C++ 2012

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- To run the project:



Lab 6.1: Introduction to Void Functions (Procedures)

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- Functions:

- ▣ Void functions (or procedures)
- ▣ Value returning functions

- Function format

`returned_data_type func_name (input_parameters)`

- Parameters

- ▣ Pass by value
- ▣ Pass by reference (&)

Lab 6.1: Introduction to Void Functions (Procedures)

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- **Heading:**
 - ▣ MUST have both data type and name for all its formal parameters.

- **Prototype:**
 - ▣ MUST have data type
 - ▣ CAN have the name for its formal parameters.

- **Call:**
 - ▣ MUST have the name
 - ▣ MUST NOT have data type for its actual parameters.

Lab 6.1: Introduction to Void Functions (Procedures)

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□ Overview:

▣ Lab 6.1 Components

- Lab Sections (6.1, 6.2, 6.3, 6.4)
- No design document for 6.4
- Create a **separate project** for **each lab assignment**

Lab 6.1: Introduction to Void Functions (Procedures)

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- 6.1 Functions with No Parameters
 - (proverb.cpp)
- 6.2 Introduction to Pass by Value
 - (newproverb.cpp)
 - Answer questions asked in [exercise 1](#)
- 6.3 Introduction to Pass by Reference
 - (paycheck.cpp)
 - Answer questions asked in [exercise 3](#)
- 6.4 Pick One
 - Choose 1 of the 3 options
 - Name the source file: [main.cpp](#)
 - No Design Document

Lab 6.1: Introduction to Void Functions (Procedures)

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- Submission File Checklist
 - Only submit the .cpp file saved in projects on Canvas
 - Be sure to include all source files and documents (if any)

 - 6.1 proverb.cpp
 - 6.2 newproverb.cpp
 - 6.3 paycheck.cpp
 - 6.4 main.cpp (For any option you choose)