

PIC 10A 1A

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Today...

- Surveys
- Intro to IDE: Visual Studio
- Minimal Example

Intro to IDE: Visual Studio

- What is IDE?

An **integrated development environment (IDE)** is a software application that provides comprehensive facilities to computer programmers for software development.

-- Wikipedia

- In short, without an IDE, you need to do more work by yourself
- Environment WITH IDE
 - [Visual Studio Example]
- Environment WITHOUT IDE
 - [g++ Example]

Intro From source code to executable

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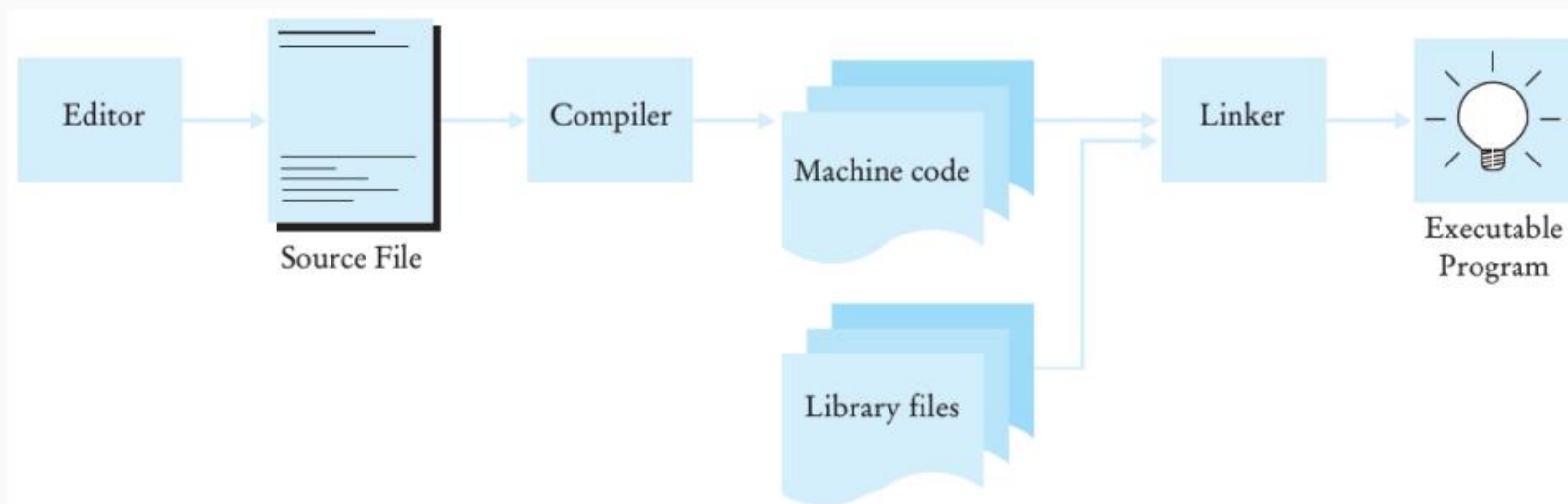


Figure 9 From Source Code to Executable Program

Provides

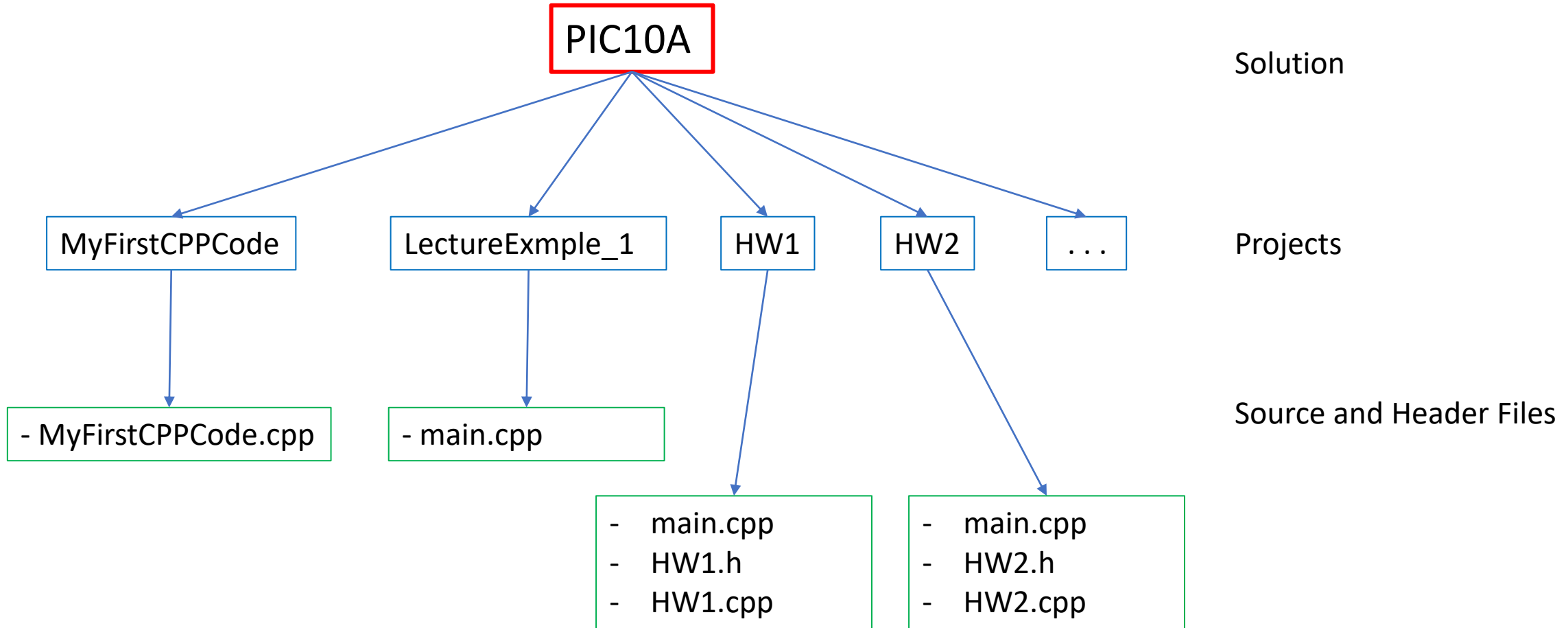
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Intro to IDE: Visual Studio

- Installation
 - Use the **Community Edition**
 - Make sure you have C++ components
 - If you don't know what to do, then choose “Custom” not “Default” when install, and Select “Visual C++” in “Programming Languages”
- Make sure you sign up / sign in
- We will create a new project on VS and write a minimal example today
 - The procedure for Xcode, or other IDEs should be very similar

Intro to IDE: Visual Studio

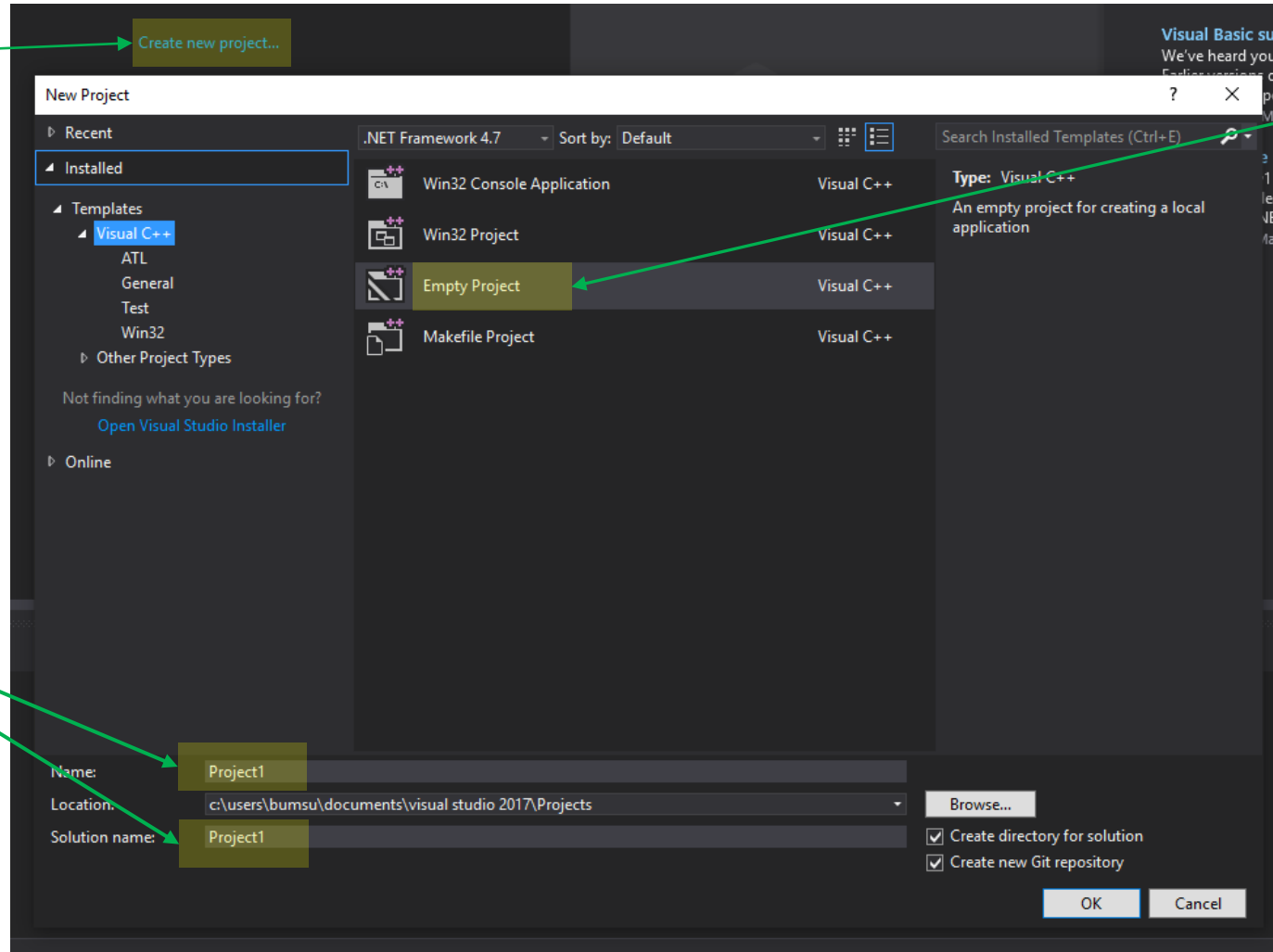
- Solution/Project help manage the files



Minimal Example

- New Project
 - Need to create a solution, if you don't have any

Click "Create new project"
From the main page

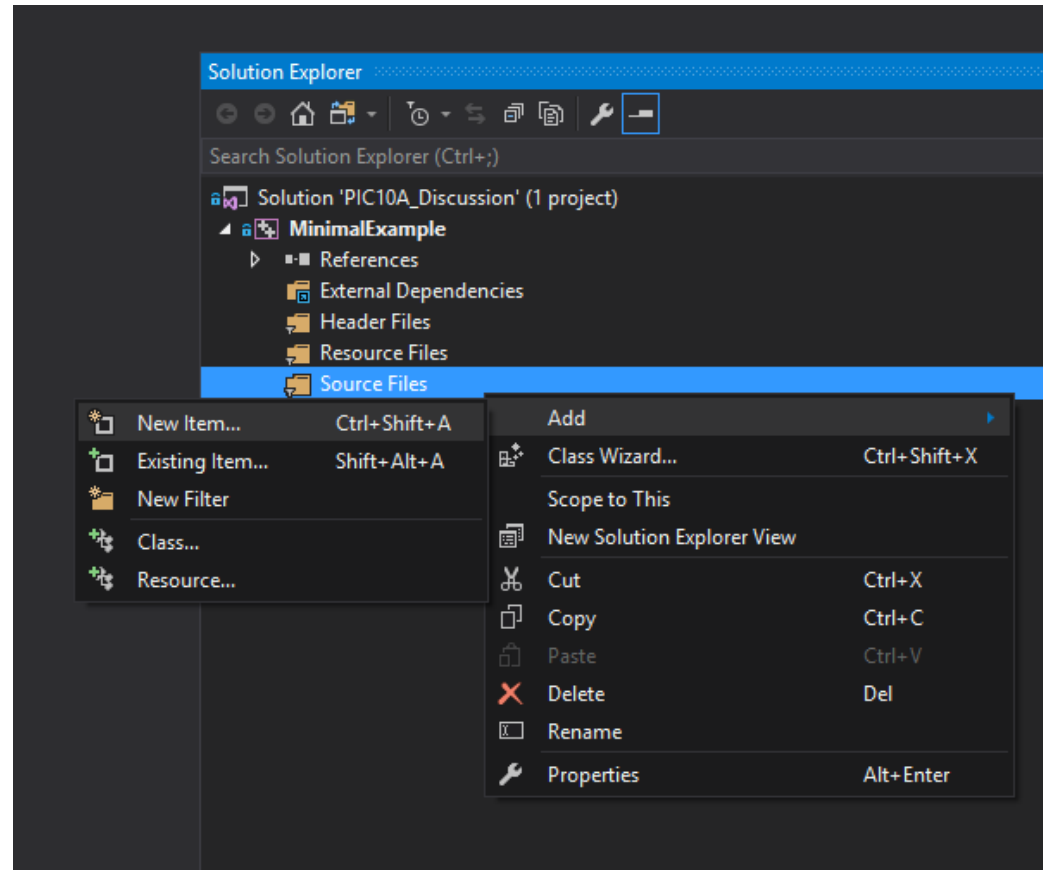


Choose "Empty Project"

Type the Solution name
and the Project name

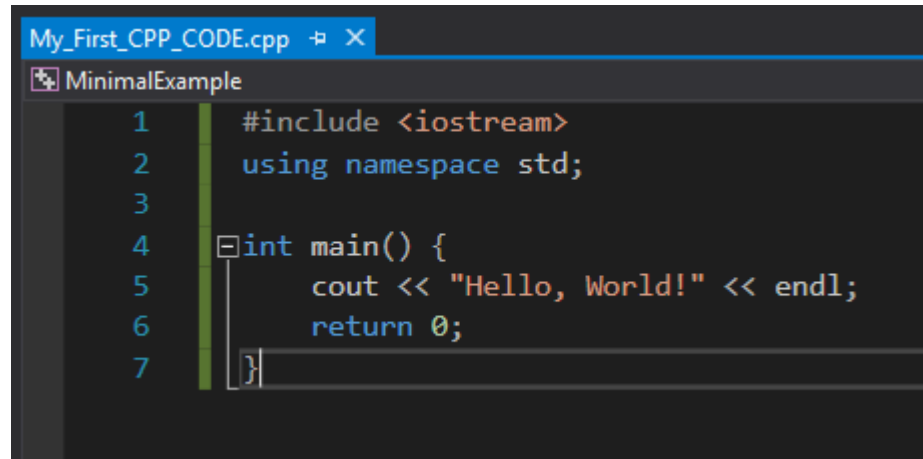
Minimal Example

- Add a new file: “my_first_cpp_code.cpp” from the solution explorer on the right



Minimal Example

- There you go!
- Now you can write your code here (in the text editor)



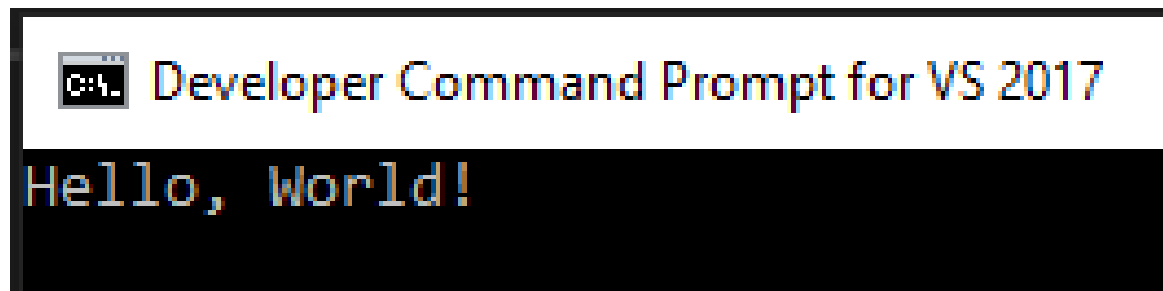
The screenshot shows a code editor window titled "My_First_CPP_CODE.cpp". Below the title bar, there's a tab labeled "MinimalExample". The code is as follows:

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      cout << "Hello, World!" << endl;
6      return 0;
7  }
```

Now, press **[Ctrl] + [F5]**,

or "Start without Debugging" on the "Debug" menu

- Result:



The screenshot shows a "Developer Command Prompt for VS 2017" window. The output of the program is displayed as:

```
Hello, World!
```

Congratulations!

You now have a title: "C++ programmer"