

Lab (Week 1)

- Microsoft Visual C++ 2010 Express

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Visual Studio C++

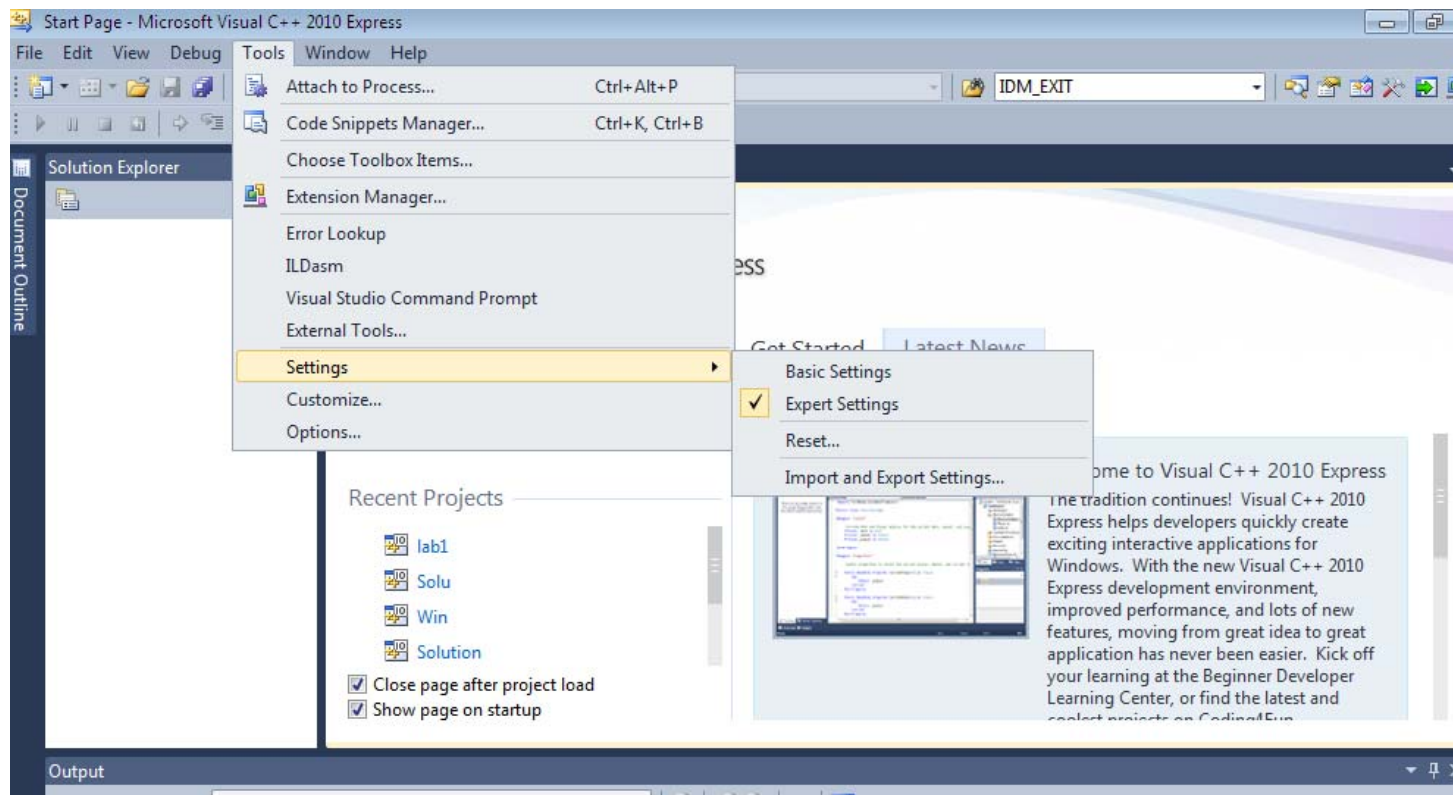
- An integrated development environment to run C++ (C plus plus) programs
 - Edit
 - Compile and build
 - Run
- Visual C++ Express
 - 2008 and older versions
 - 2010
 - 2012
 - 2013
 - 2015

Tasks

- Tasks
 - Learn how to use Visual Studio C++.
 - Learn how to edit, compile and build, and run a program.
- Programs
 - `HelloWorld1.cpp`
 - `HelloWorld2.cpp`

Setup

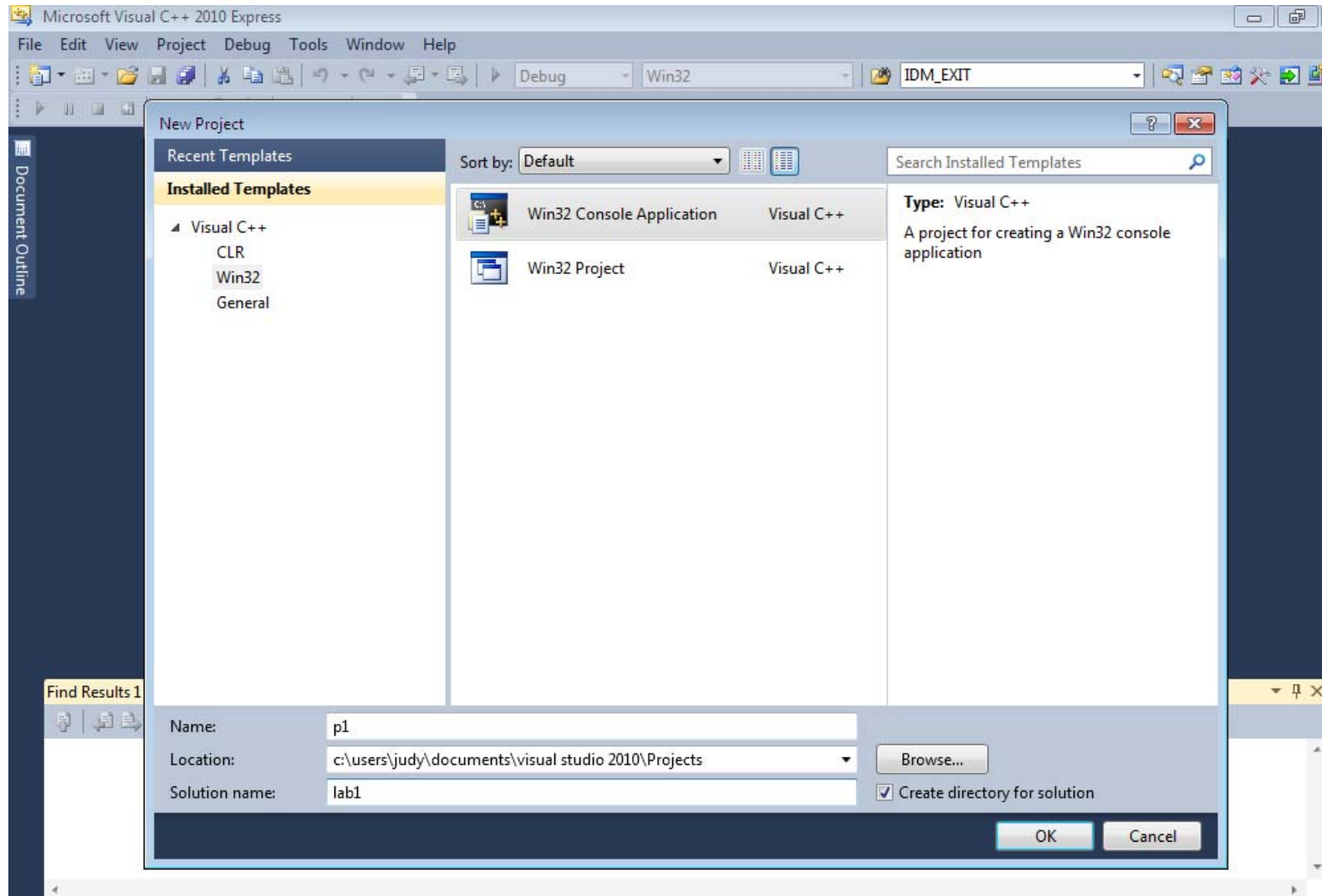
- Run Microsoft Visual C++ 2010 Express
- Tick **Tools** -> **Setting** -> **Expert Setting**.



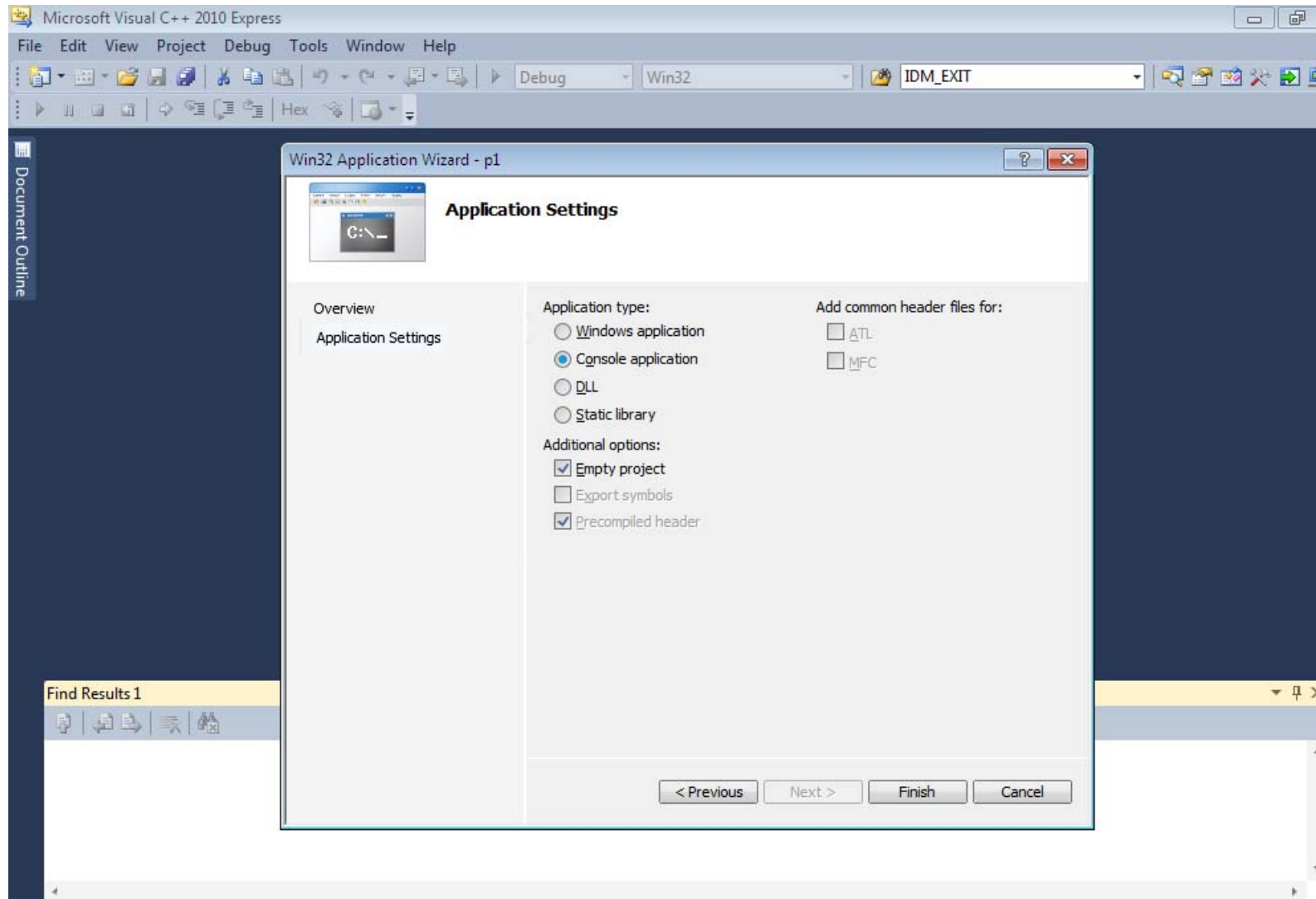
Step 1

- Create a new solution and a new project
 - Select **File** -> **New** -> **Project**
 - Choose **Win32**-> **Win32 Console Application** (UI: see page 6)
 - Enter **Name**, **Location** and **Solution**.
 - Name: project name
 - Location: folder where the project is saved
 - Solution: solution name. Many projects can be included in one solution. It is better to use a different solution name from the project name.
 - Click **OK**
 - Choose **Application Setting** and tick **Empty Project** (UI: see page 7)
 - Click **Finish**

Step 1



Step 1



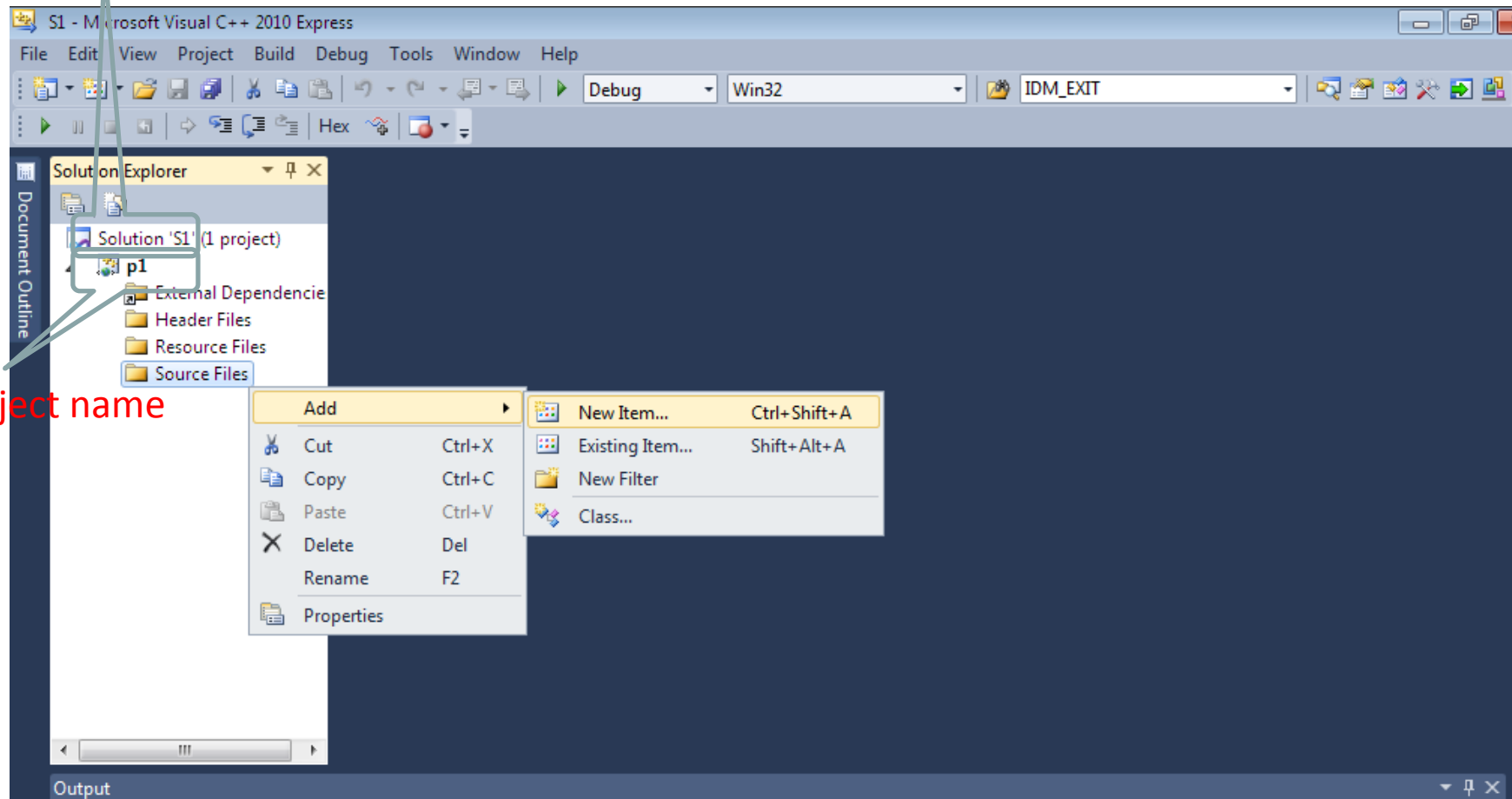
Step 2

- Add a source file
 - Right click **Source Files** under the current project
 - Choose **Add** -> **New Item...** (UI: see page 9)
 - Choose **C++ File** and Enter **Name** (e.g., HelloWorld1)
 - Click **Add** (UI: see page 10)

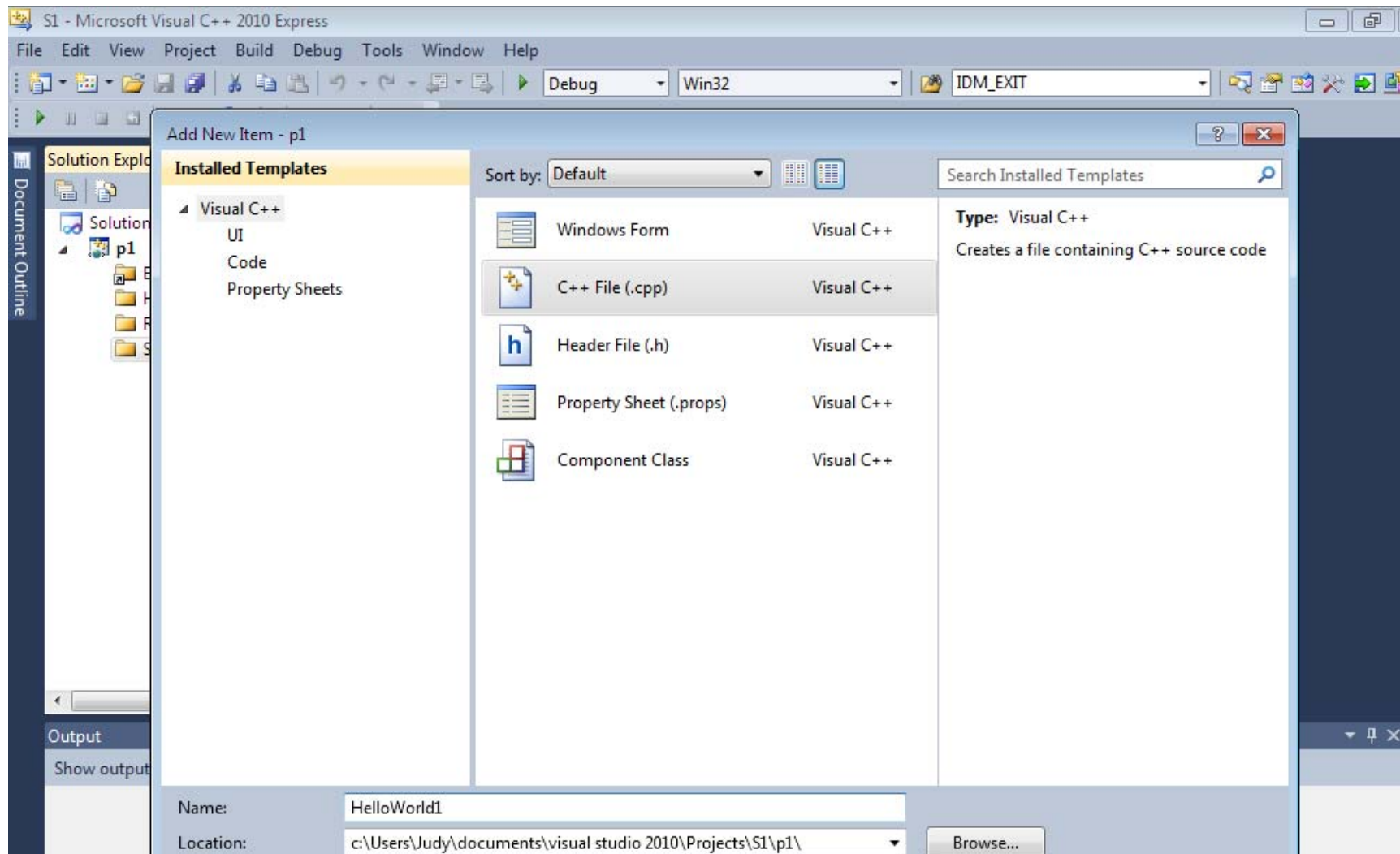
Step 2

Solution name

Project name

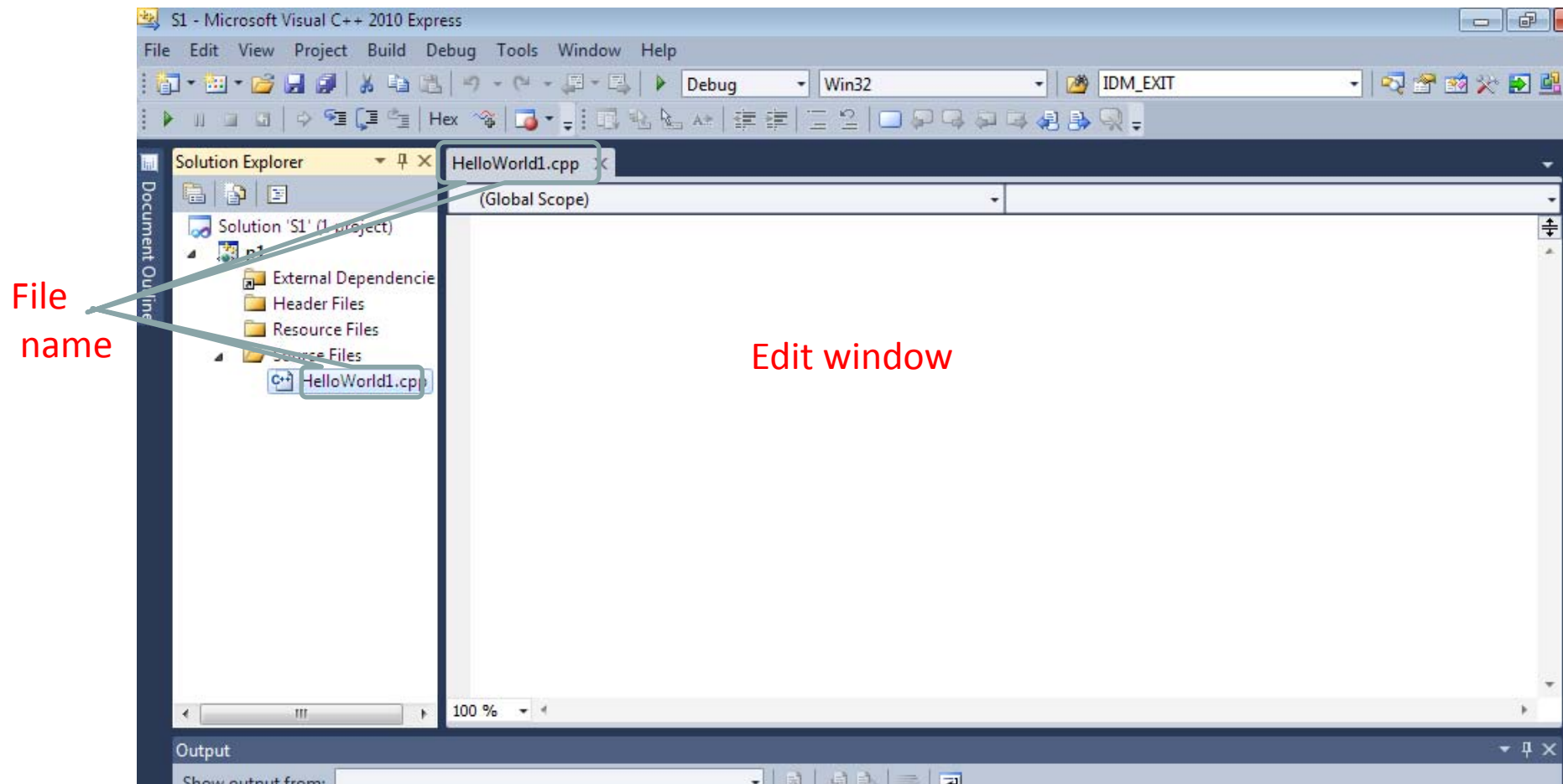


Step 2



Step 3

- Edit the code in the editor window (input the code on page 12)



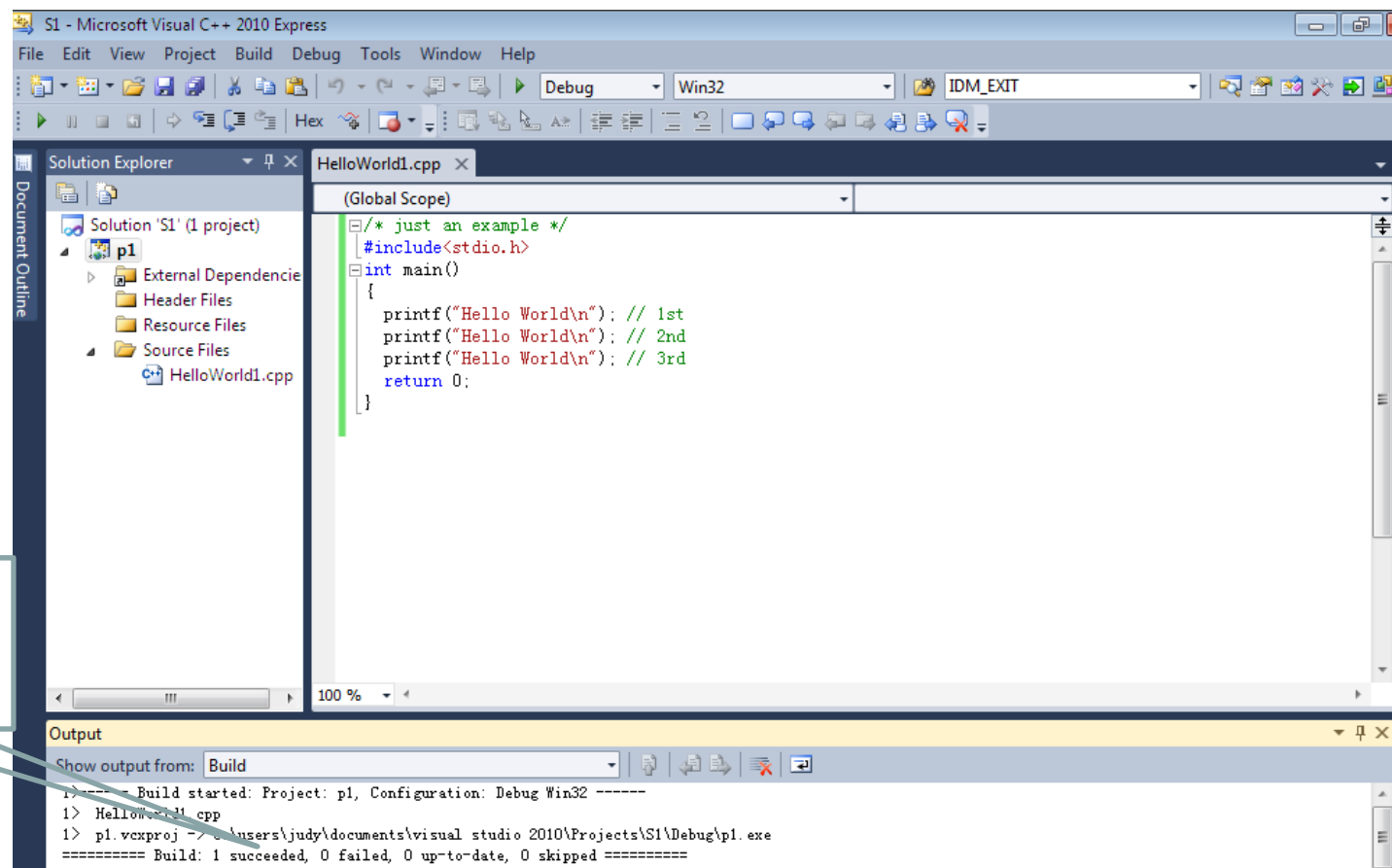
HelloWorld1.cpp

```
/* just an example */  
#include<stdio.h>  
int main()  
{  
    printf("Hello World\n"); // 1st  
    printf("Hello World\n"); // 2nd  
    printf("Hello World\n"); // 3rd  
    return 0;  
}
```

HelloWorld1.cpp

Step 4

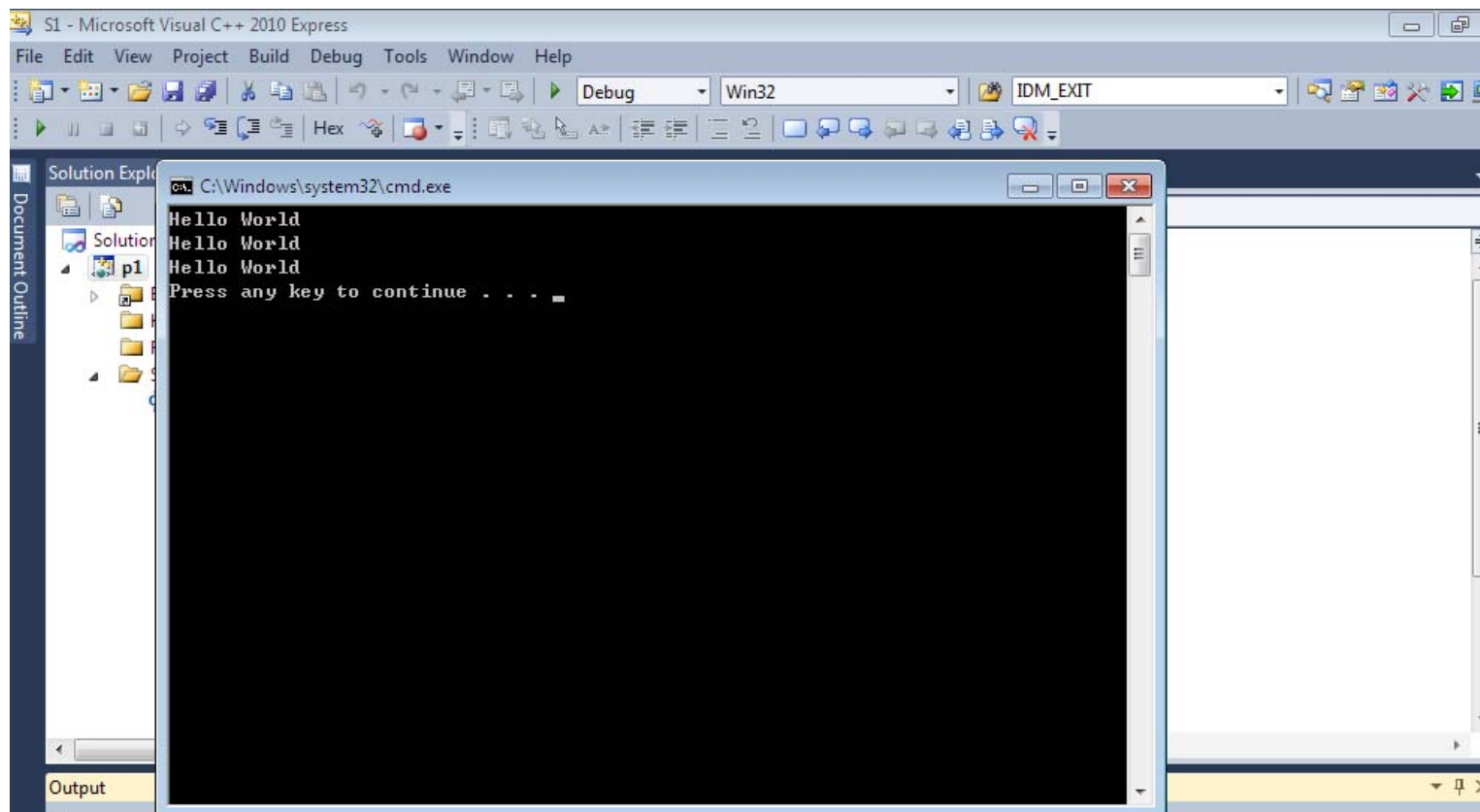
- Build a project
 - Right click the project name and choose **Build**.



Succeed or failed:
error or no error

Step 5

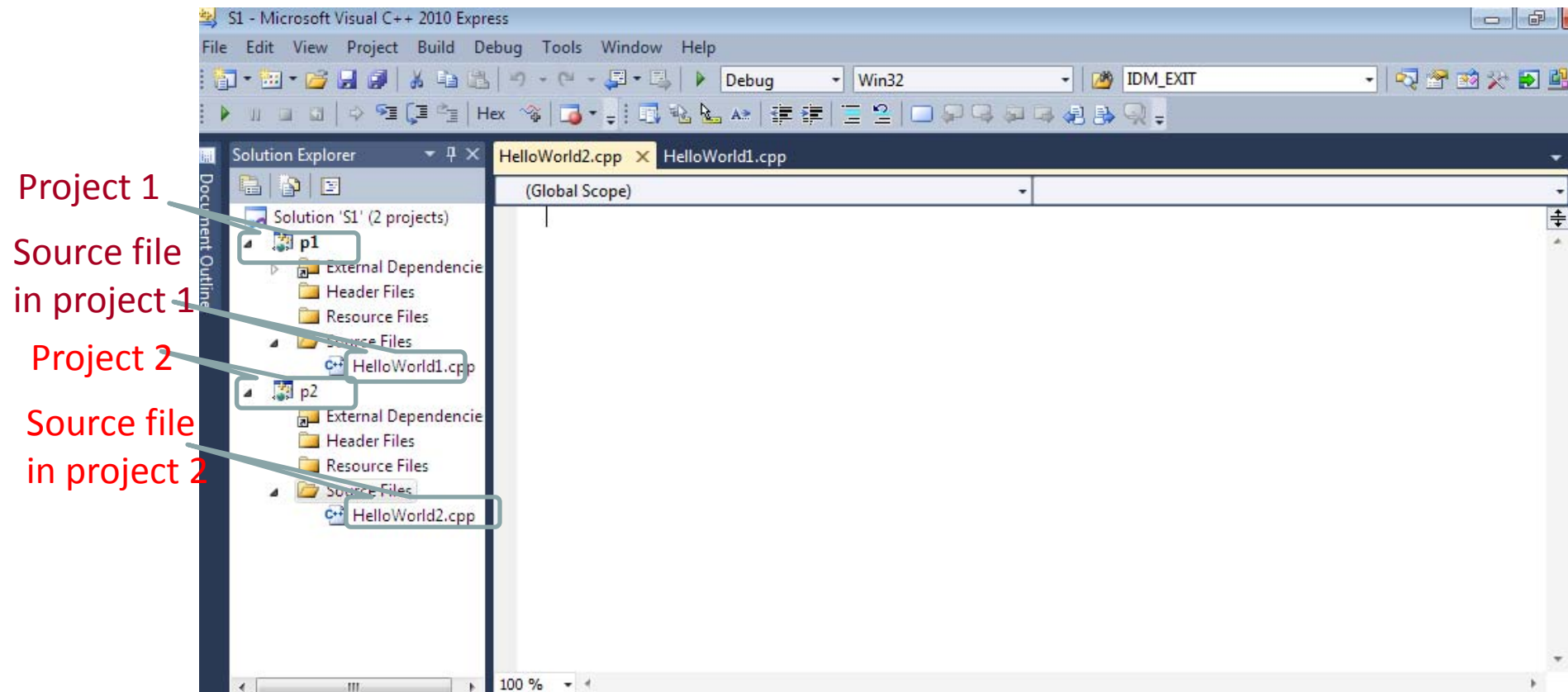
- Run the project (if there is no building errors)
 - Click **Ctrl-F5** and see the result



Create Another Project under Same Solution

- Create a new project under existing solution
 - Right-click solution name in the **Solution Explorer**
 - Select **Add -> New Project**
- Follow the same way learnt in the first project to enter the project name and add another source file under this project (**UI: see page 16**).

Two Projects under Same Solution



Switch between Projects

- Edit HelloWorld2.cpp (**code is on page 18**)
- Important notes
 - Only one project can be **active**
 - Only **highlighted** project is **active**
 - How to switch between different projects
 - Right-click the project name
 - Choose **Set as StartUP Project**
- Build and run the second project as done in the first project.

HelloWorld2.cpp

```
/* Another example */  
#include<stdio.h>  
int main()  
{  
    printf("Hello World\nHello World\nHello  
        World\n");  
    return 0;  
}
```

HelloWorld2.cpp

Submission

- Compressed **HelloWorld1.cpp** and **HelloWorld2.cpp** into one file with file name in the format *Lab1_#####.zip* (or *rar*, or *7z*) and submit it into **iSpace**.