

LAB # 1

January 23, 2023 (L1) and January 25, 2023 (L2)

OBJECTIVES

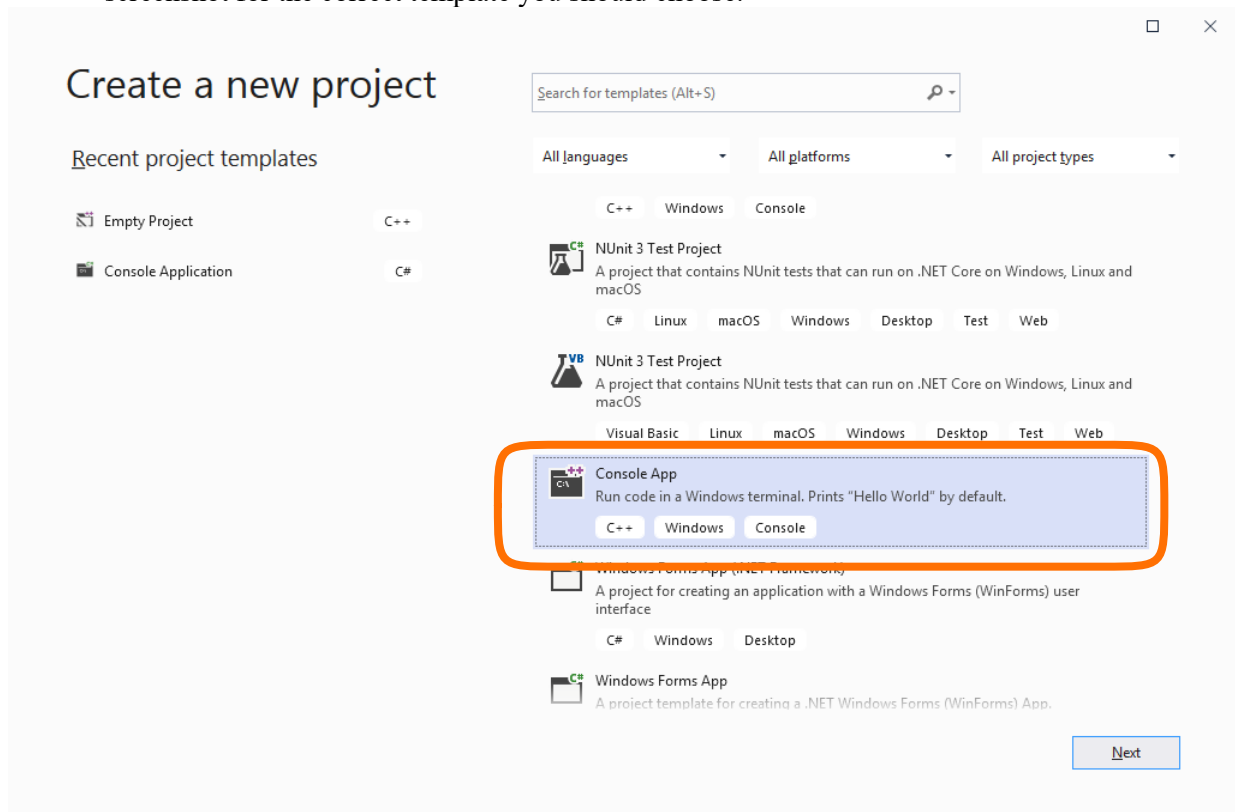
- 1) To learn how to access Microsoft's Visual Studio.
- 2) To learn how to enter, compile and run the C programs using Microsoft's Visual Studio.
- 3) To learn how to submit files to your folder in the class M: drive.

Task 1: (optional) Learn how to access Microsoft's Visual Studio

- If you work on the lab assignments in the classroom SENG 222 or other ECE labs, please skip this task.
- If you need to work on the lab assignments outside the ECE labs, please follow “[Instructions of Accessing Microsoft Visual Studio Outside ECE Labs](#)”.

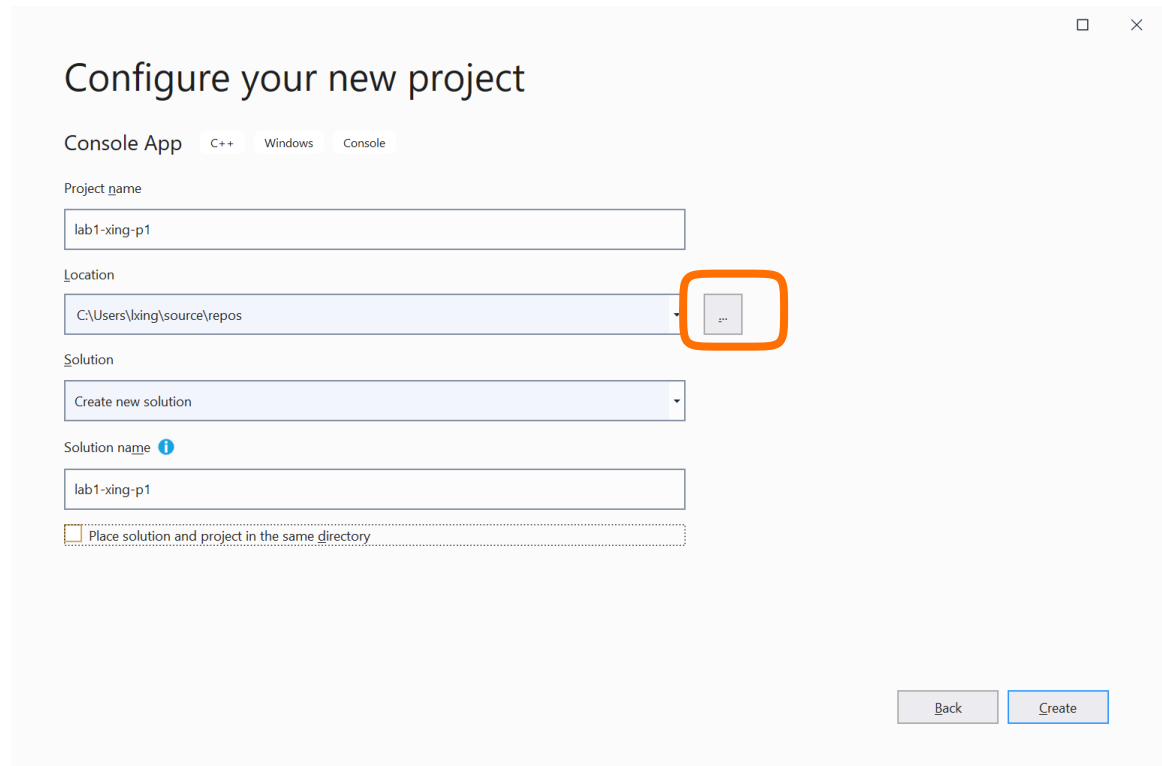
Task 2: Learn how to enter, compile, and run the C programs using Microsoft's Visual Studio.

1. Open to run the Visual Studio 2022 (on your computer desktop).
2. Select **Create a new project** (Or go to the *File* options and select *New* → *Project* Option)
3. Select **Console App** (with C++) from the Project Templates. Please refer to the following screenshot for the correct template you should choose.



4. Click **Next** and Enter the name of the project (e.g., lab1-xing-p1), and then click **Create**. This will create a new C++ project.

Note: you may change the location to your lab folder under the class M: drive by clicking the small box containing ... before **Create**. If you don't change the location, you will need to follow the path given under "Location" to locate the required cpp files and copy and paste them to the class M: drive for the lab submission.



Configure your new project

Console App C++ Windows Console

Project name
lab1-xing-p1

Location
C:\Users\king\source\repos

Solution
Create new solution

Solution name ⓘ
lab1-xing-p1

Place solution and project in the same directory

Back Create

5. A .cpp file will automatically open in the studio window having the default format of the C++ template.
6. You may remove the content of the template file and then input the C program (source code) below, or directly edit on it. Then save it by going to the **File** option and selecting **Save** option or simply clicking the **Save** icon (the disk icon) on the tool bar.

```
/* The first C program learned in ECE160 */  
#include <stdio.h>  
void main(void)  
{  
    printf("Hello world!");  
}
```

7. To compile and link the program, go to the **Build** option in the menu and select **Build Solution** option. This compiles the program. The status is shown in the window below the main program. Check if there are compilation errors.
8. To execute the program, go the **Debug** option in the menu and select **Start Without Debugging** option.
9. A prompt window opens displaying the output of the program.

Task 3: Learn how to submit program files to your folder in the class M: drive.

Please follow “**Submission Guidelines**” in the lab section of the course website to practice submitting files to the class M: drive.

Task 4: Review task 2 and task 3.

Modify the first C program in Task 2 - Step 6, then compile and run the program so that the following statement can be output to the screen. Please rename your file using “lab1-your last name-p2” (e.g., lab1-xing-p2).

Have a great semester spring 2023!