

Pittsburg State University
Programming Assignments
EET 247 – Programming for Electronic Systems

PROBLEM SET 1: INTRODUCTION TO COMPUTER PROGRAMMING

LAB ASSIGNMENT – 1A - *IDE Tutorial*

Objective:

Using textbook, notes and personal research material, install and utilize the Microsoft Visual Studio 2010 application to write a C Language program.

REPORTING: There will be no reporting necessary for this lab. However, it is essential that you use this IDE in order to complete future Lab assignments

General Information:

This is a tutorial to familiarize you with a programming **Integrated Development Environment (IDE)** and help you get started with computer programming. The objective of this class is to learn programming principles and fundamentals which are similar across all programming languages. In this class we will focus on using C programming language to teach these principles and fundamentals

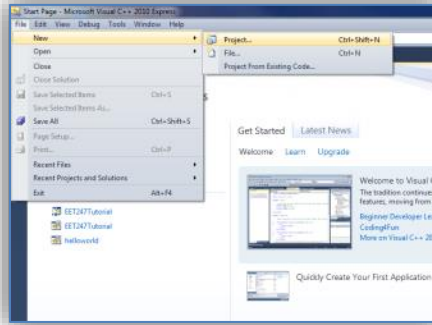
Note: You can download the Visual Studio Express 2010 that we use in class from CANVAS. The file name is: **vc_web.exe** Also, if you wish, you can download the 2015 version from Microsoft, however there is significant differences between the versions that may add a level of complexity and confusion. However, either will work for the class. Also, they will only work on PCs.

Stick with the defaults. You will need to suspend your anti-virus program during installation and operation/compiling and executing code.

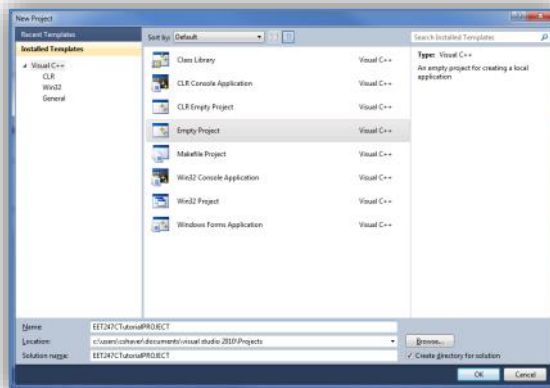
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C Programming

1. Open Microsoft Visual C++ 2010 express.
2. Open a new Project under [File_New_Project...](#), or by pressing Ctrl+Shift+N



3. In the New Project dialog box, select “Empty Project” and name it EET247CTutorialProject. Then Press OK.



4. A new screen should appear. On the left-hand side, there should be a ‘Solutions Explorer’ window pane. The pane should show your new project “EET247CTutorialPROJECT”

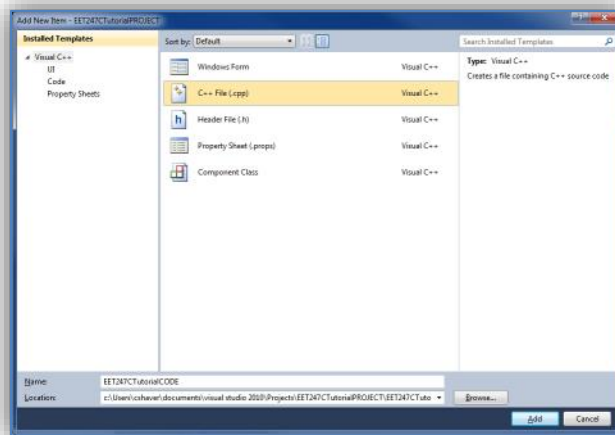
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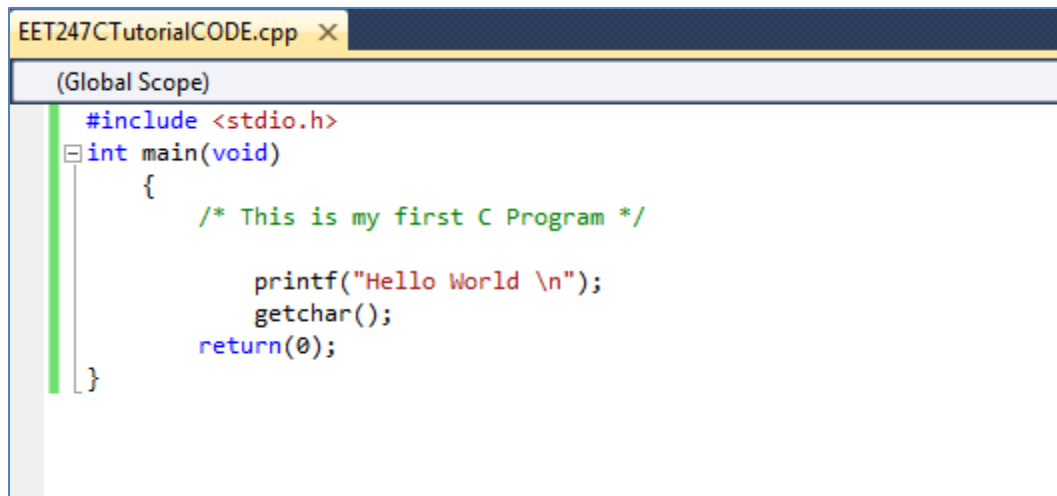


5. If this screen didn't appear, then click on [View_Other Windows_Solution Explorer](#). Or Ctrl+Alt+L
6. We now need to add a new file to our project. This can be done by right clicking on EET247CTutorial in the solutions explorer window and clicking on [Add_New Item...](#), or by clicking on [Project_Add New Item...](#), or by pressing Ctrl+Alt+A.
7. In the 'Add New Item' dialog box select a 'C++ File (.cpp)' and name the file EET247CTutorialCODE and press 'Add'.



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8. Type in the following code.



The screenshot shows a code editor window titled 'EET247CTutorialCODE.cpp'. The editor is in 'Global Scope' mode. The code is as follows:

```
#include <stdio.h>
int main(void)
{
    /* This is my first C Program */

    printf("Hello World \n");
    getchar();
    return(0);
}
```

9. Compile the code by pressing F7 or by pressing [Debug_Build Solution](#)
10. You may now run this program by opening the .exe file in your directory. The program may also be ran by pressing F5 or by clicking the green arrow.