

**King Fahd University of Petroleum and Minerals**  
**Information & Computer Science Department**  
**ICS 103 – Computer Programming in C**  
**Summer Semester 2008 (073)**

**Lab # 1 (INTRODUCTION)**

**Objective:**

1. How to use Windows, Microsoft Visual C++ 6.0 and Turbo C
2. How to Download and print files from a Webpage  
(local.ccse.kfupm.edu.sa/~raharja/freetc20.zip)
3. To encourage students to install Turbo C++ in their home PCs

**Scope:**

The student should know the following:

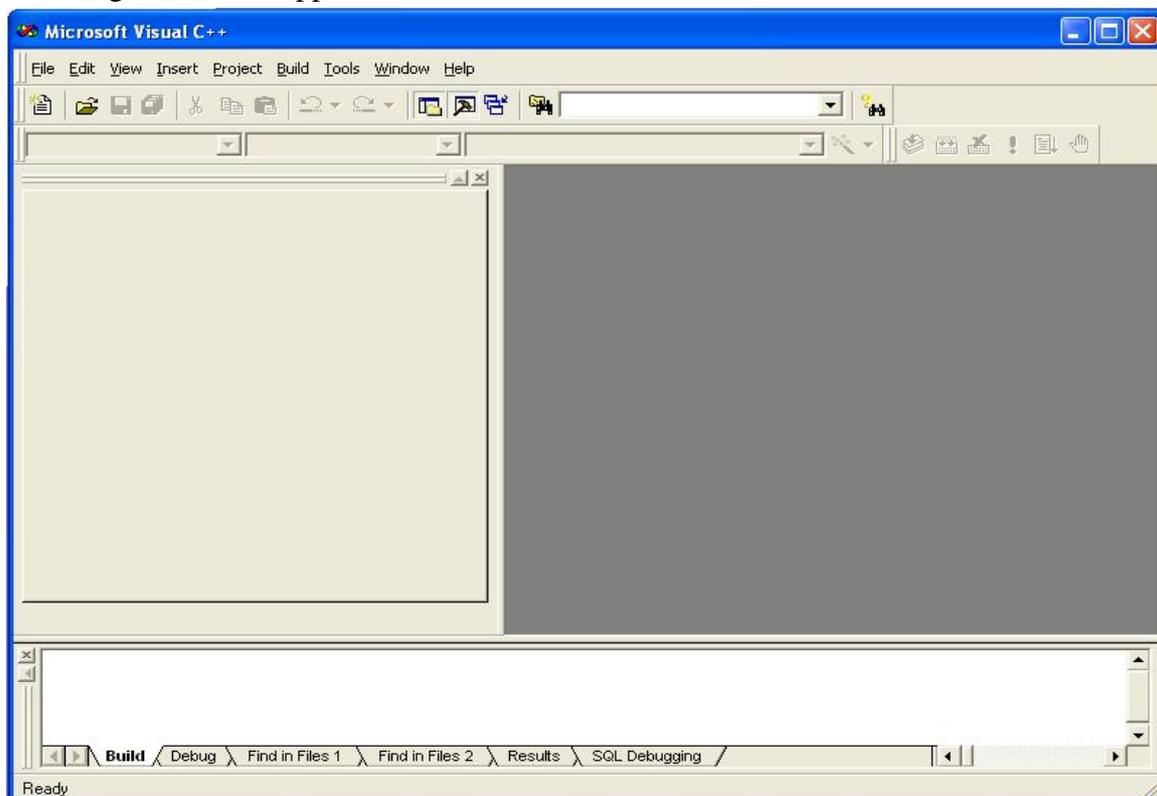
1. Logon and Logoff
2. Launch and Close an application
3. Microsoft Visual C++ 6.0 and Turbo C Integrated Environment
4. Edit, Compile and Run C programs
5. How to download files from WebPages and how to print them

**Discussion:**

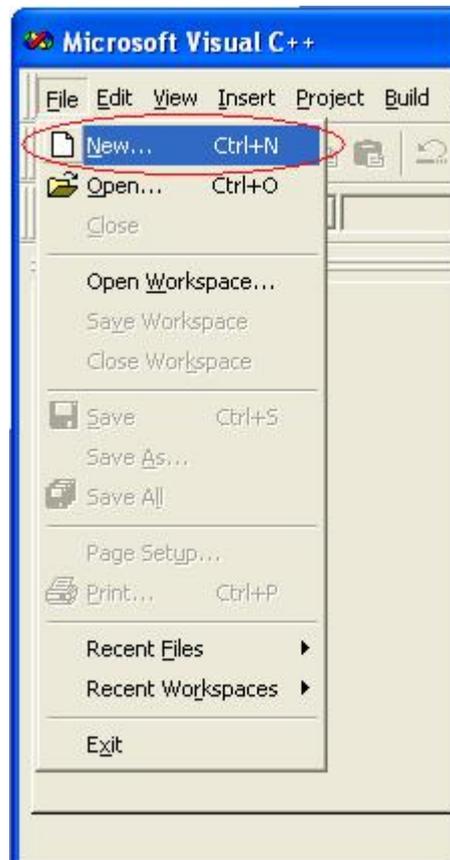
1. To run Microsoft Visual C++ 6.0, click the followings:

Start → All Programs → Microsoft Visual Studio 6.0 → Microsoft Visual C++ 6.0

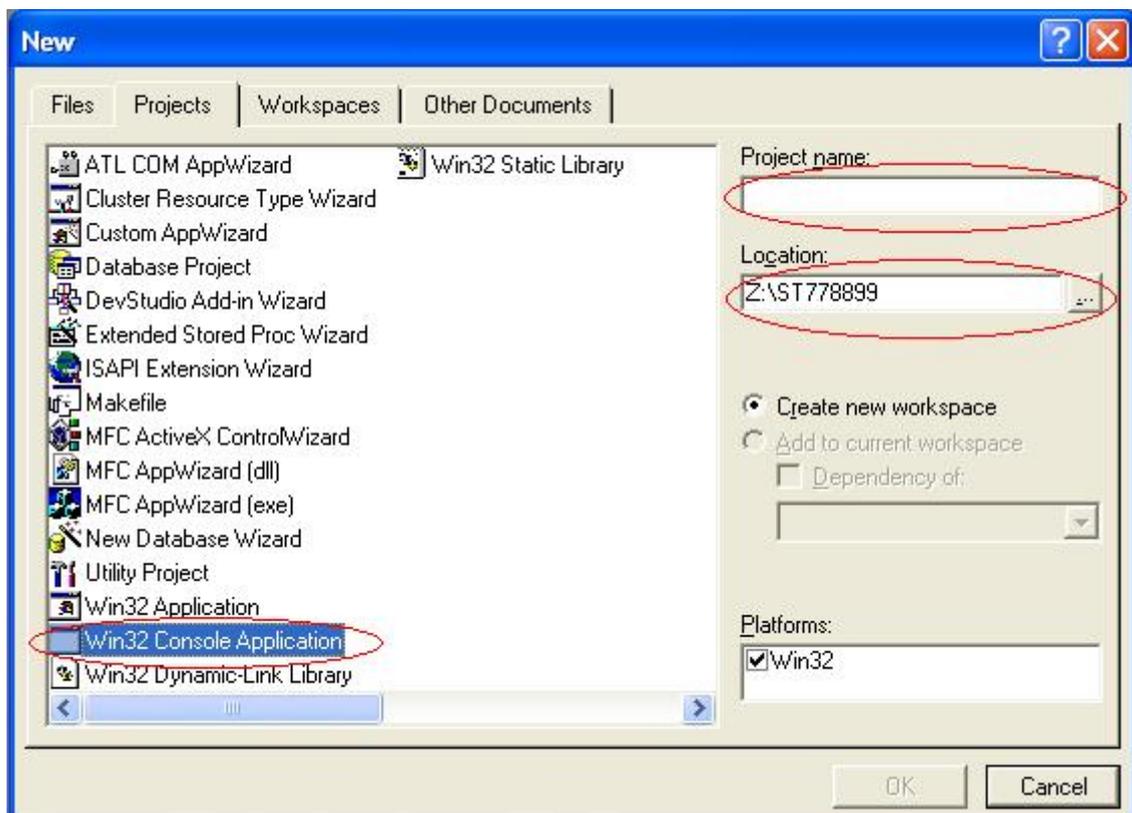
The following screen will appear:



2. Then, click the menu File → New:

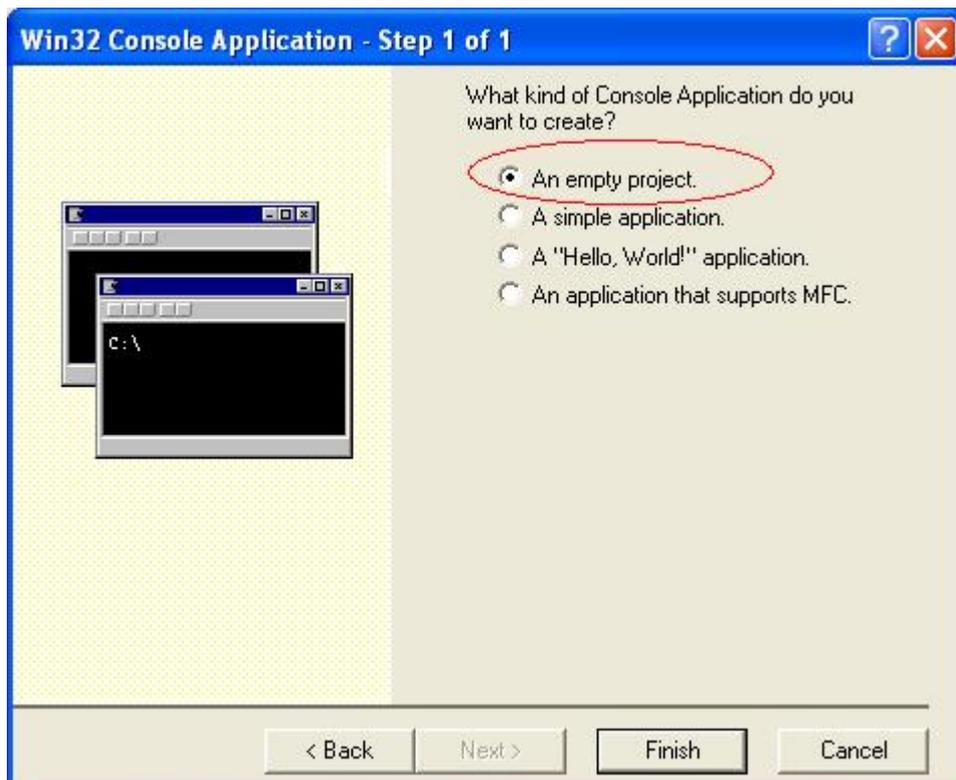


The following dialog box will appear:

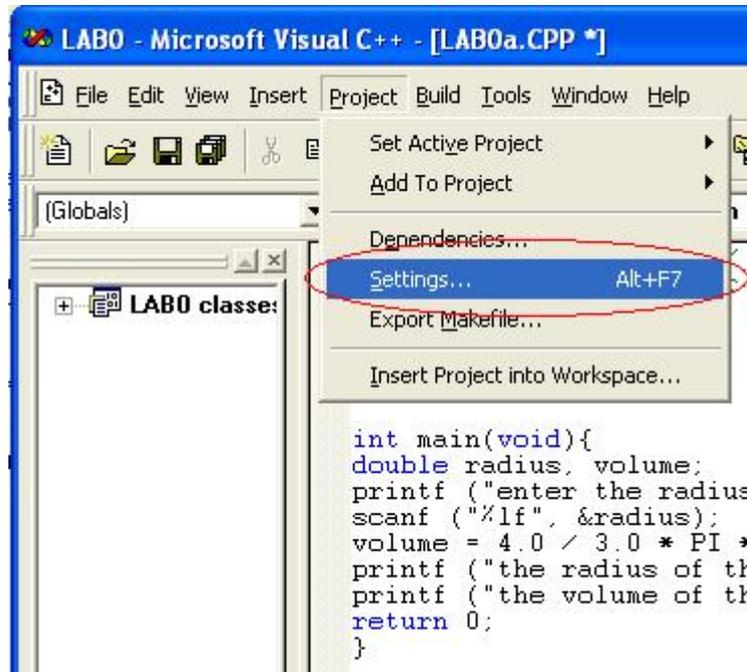


3. Select **Win32 Console Application**.
4. Set the Location to your directory (e.g. Z:\ST778899).
5. Set the Project name (e.g. Lab0)
6. Then click the button **OK**.

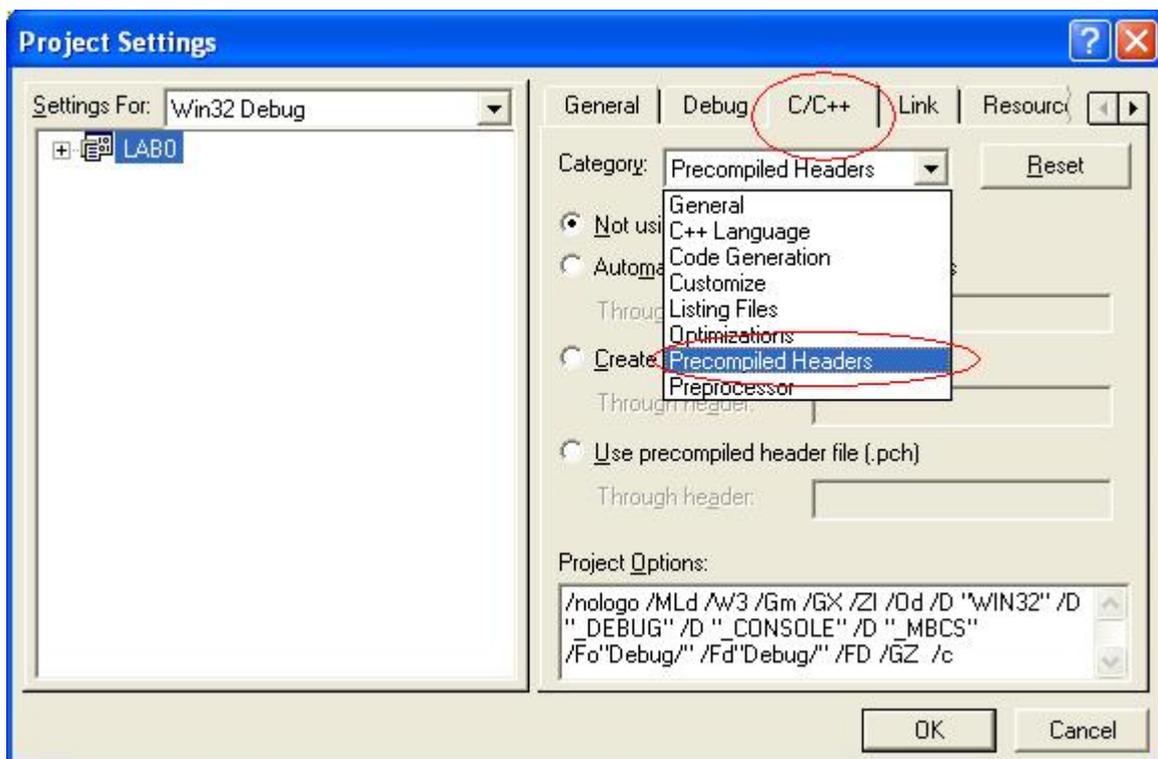
The following dialog box will appear:



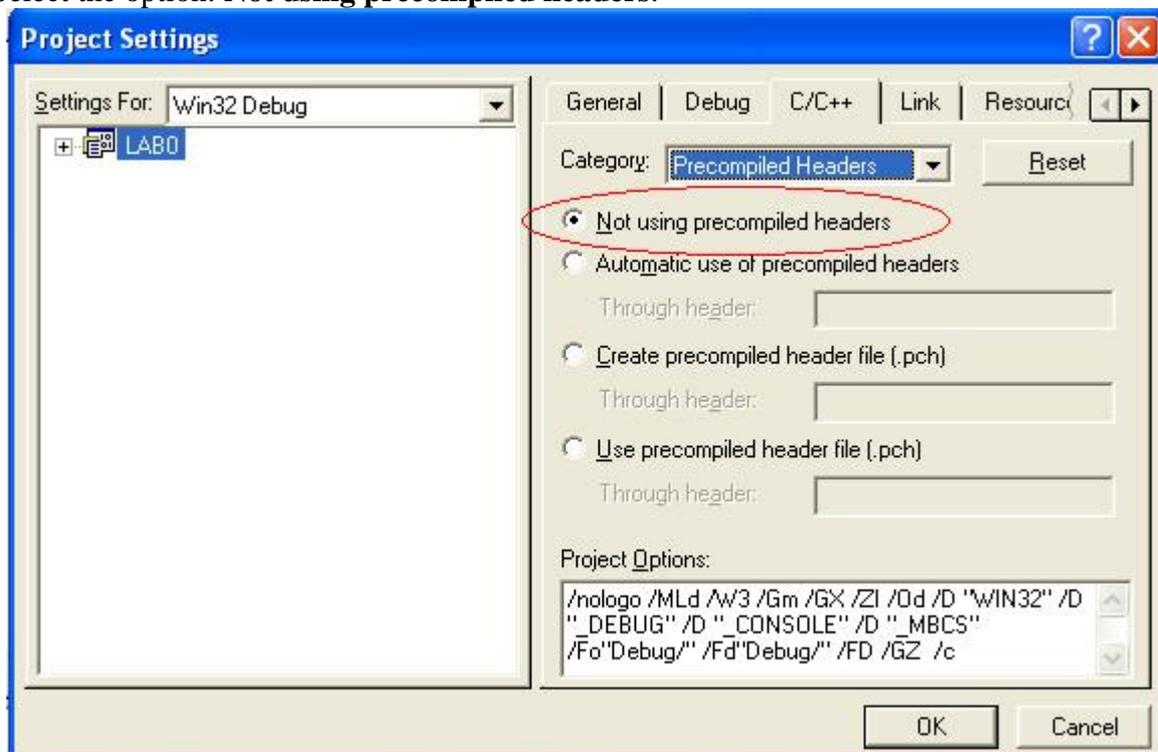
7. Select the option: **An empty project**.
8. Press the button **Finish**.
9. Select the menu **Project** → **Setting**



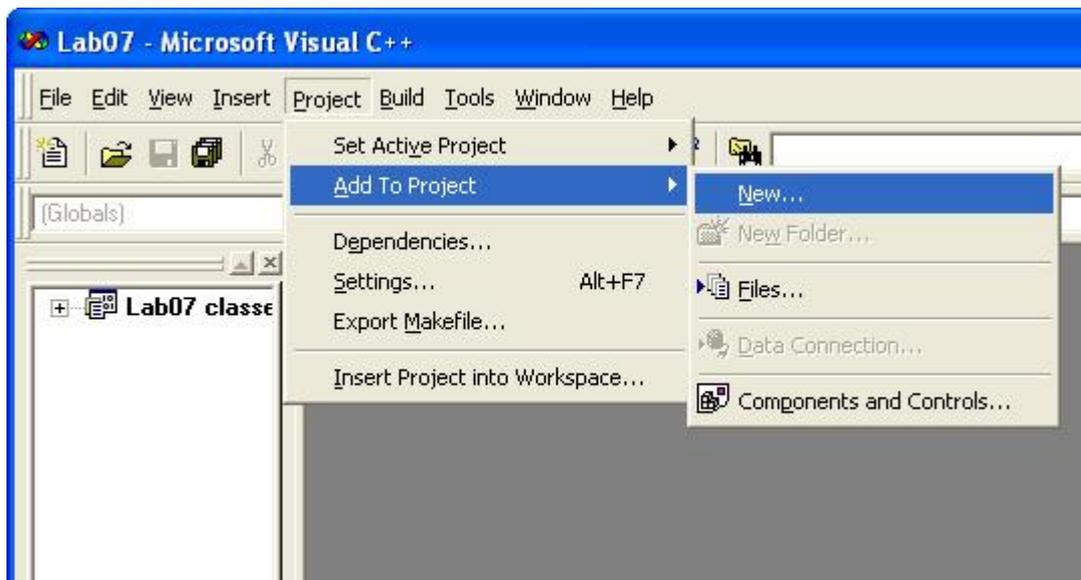
Then the following dialog box will appear:



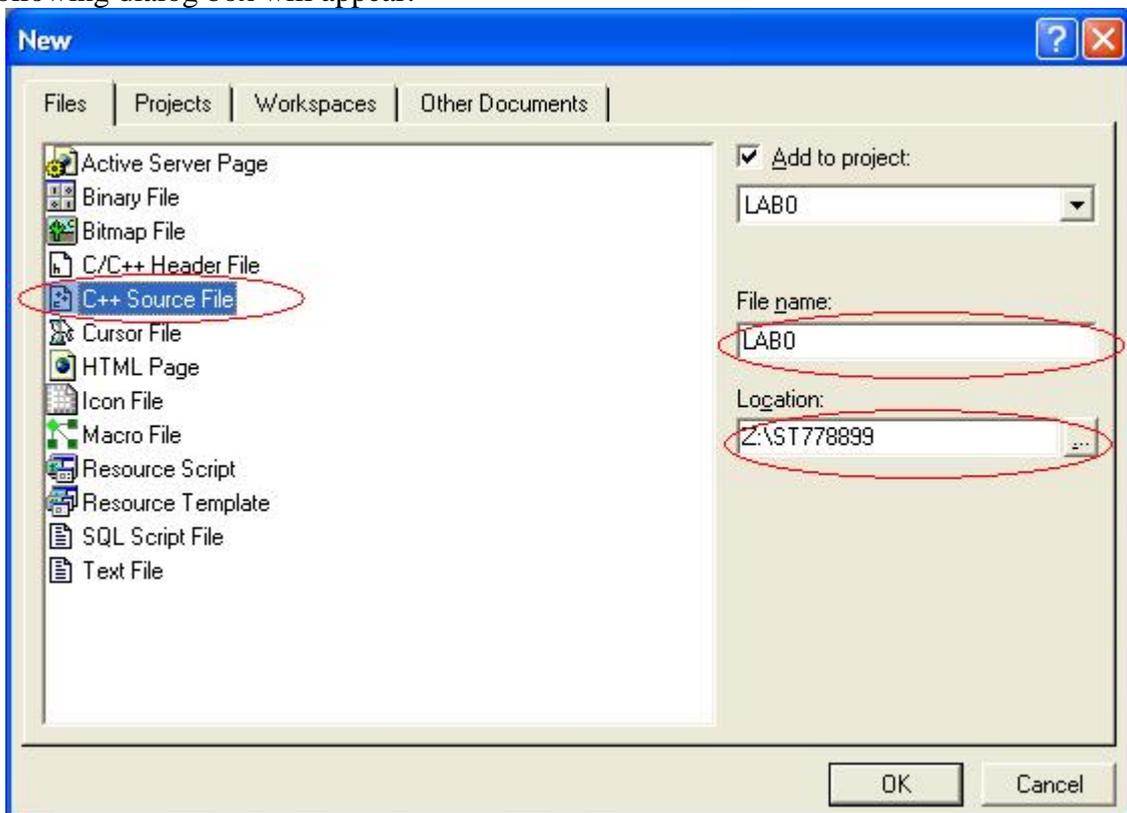
10. Select the Tab **C/C++**.
11. Select the Category: **Precompiled Headers**.
12. Select the option: **Not using precompiled headers**.



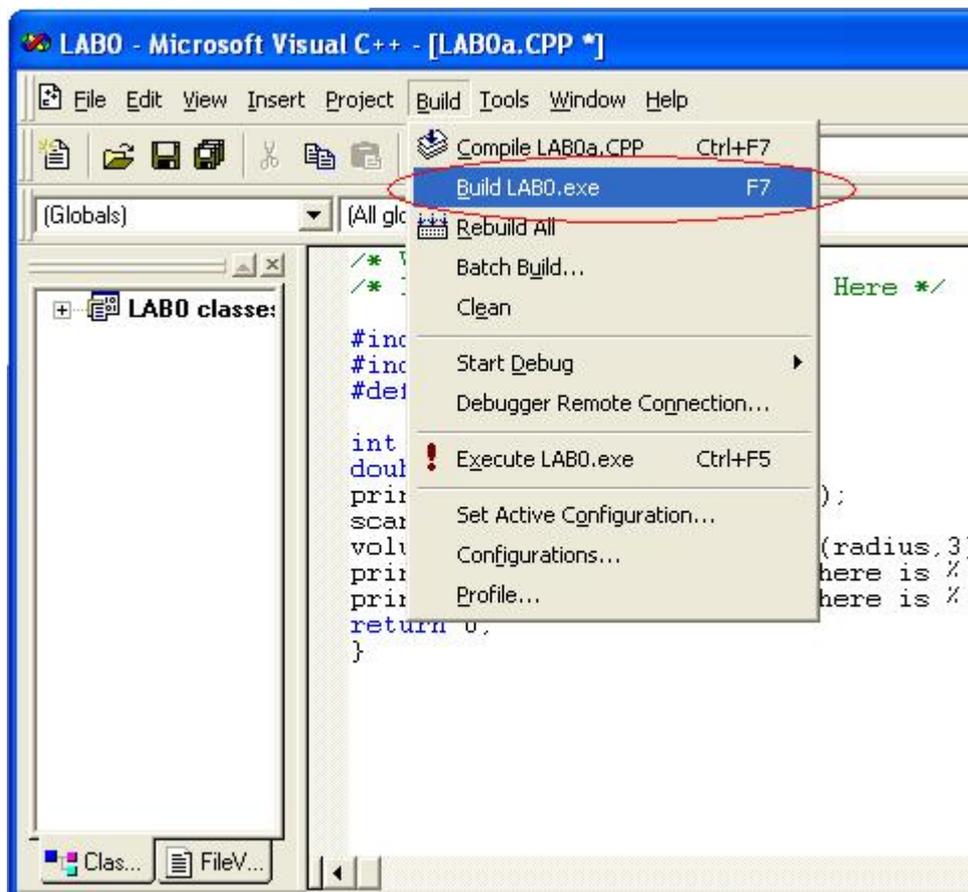
13. Press the button **OK**.
14. Select the menu **Project** → **Add to project** → **New**.



The following dialog box will appear:



15. Select the item **C++ Source File**.
16. Set the Location with your working directory.
17. Set the File name (e.g LAB0.CPP).  
Now you are ready to type the C-program.
18. To compile your C-program, select the menu **Build → Build**.



19. To execute the program select the menu **Build** → **Execute**.

**Exercises:**

1. Type the following program:

```

/* Volume of a sphere */
/* ICS103 Lab#0 by: Your Name Here */

#include <stdio.h>
#include <math.h>
#define PI 3.14159

int main(int argc, char* argv[]){
    double radius, volume;
    printf ("enter the radius > ");
    scanf ("%lf", &radius);
    volume = 4.0 / 3.0 * PI * pow(radius,3);
    printf ("the radius of the sphere is %.2f\n", radius);
    printf ("the volume of the sphere is %.2f\n", volume);
    return 0;
}

```

2. Save the program with the name LAB0Q1.CPP
3. Compile, Link, Run, and Test the program