

CS 149D  
Recitation, March 13, 2006  
**Visual C++ Development Environment**

Name \_\_\_\_\_

**Objective:** Become more familiar with the Visual C++ Development Environment

**Activity 1: Type in a new C++ program.** Type in the C++ program that is in the Visual C++ tutorial on the class web site. Follow the instructions in that tutorial and run the program. Unless you type much better than I, you may need to correct typing errors. Correct them and get the program running.

Note that to recompile the program you can click on the "build" icon or pressing the "F7" key. After a successful compile, you can run it again by clicking on the "!" icon or pressing the "ctrl+F5" keys simultaneously. This is usually faster.

**Activity 2: See the effect of simple typing errors.** If a program is not typed correctly, the compiler will identify errors which keep it from translating the program. These error messages can be quite confusing.

For each change, modify the program, compile, then answer the questions.

- a. Change the line "float area;" to "float area:" That is, change the semi-colon to a colon.

How many messages did this generate? (These are counted for you at the bottom of the debugging window.)

How would you rate the helpfulness of the error messages on a 1 to 4 scale where 1 means "not helpful at all" and 4 means "very helpful"?

- b. In the same line as (a), remove the colon so that the line becomes "float area"

How many messages did this generate? (These are counted for you at the bottom of the debugging window.)

How would you rate the helpfulness of the error messages on a 1 to 4 scale where 1 means "not helpful at all" and 4 means "very helpful"?

- c. Correct the errors from above (check this by compiling until you get no error messages), then change the line "Area = Pi \* r \* r;" to "area = Pi \* r \* r;". That is, change the capital A to a lower case a.

How many messages did this generate? (These are counted for you at the bottom of the debugging window.)

How would you rate the helpfulness of the error messages on a 1 to 4 scale where 1 means "not helpful at all" and 4 means "very helpful"?

- d. Correct the errors from above (check this by compiling until you get no error messages), then remove the semi-colon at the end of the line that starts with `cout .`

How many messages did this generate? (These are counted for you at the bottom of the debugging window.)

How would you rate the helpfulness of the error messages on a 1 to 4 scale where 1 means "not helpful at all" and 4 means "very helpful"?

- e. Correct the errors from above (check this by compiling until you get no error messages), then remove the text "`<< endl`" from the line that starts with `cout .` Make sure the line still ends in a semi-colon.

How many messages did this generate? (These are counted for you at the bottom of the debugging window.)

Run the program again. What changed? (You may need to run it with and without the "`<< endl`" text to see the difference).