CPS 171 Machine Problem 0 Due Date: 1/23/02

If you are working on campus, you will first have to login to the WCC Novell network using your own account and password (provided by your instructor). If this is the first time you have used the account, change the password to something that you will remember.

Start the Microsoft Visual C++ software and open a new C++ source file called MP0. (At WCC save the file on the H: drive)

Type in the program below (from page 110 in the text) and replace the suggestions inside the parentheses with the appropriate information. When you have completed the program compare it to the original program and make any changes that are not like the original. ***Compile*** the program and correct any syntax errors that are mentioned. Try to see if you can figure out what the errors mean when you compare your version with the one listed below. Be careful as each symbol is important. When the compilation is successful, ***build*** and ***run*** your program. The last step after you have successfully done the steps above is to ***print*** out the program and print a copy of the output. (Your instructor will show you how to get a printed copy of the output). Make a back-up copy of your program by **Saving** it on your diskette. Both the printed program and the corresponding output should be turned in.

```
//*************************************
// Filename: MP0.cpp
// Programming Assignment Zero for CPS 171
// (your name)
// (today's date)
//*************************************
// FreezeBoil program
// This program computes the midpoint between
// the freezing and boiling points of water

#include <iostream>

using namespace std;

const float FREEZE_PT = 32.0;    //Freezing point of water
const float BOIL_PT = 212.0;     // Boiling point of water

int main()
{    float avgTemp;               // Holds the result of averaging
                                  // FREEZE_PT and BOIL_PT

     cout << " (your name) " << endl;
     cout << " Water freezes at " << FREEZE_PT << endl;
     cout << " and boils at " << BOIL_PT << " degrees." << endl;

     avgTemp = FREEZE_PT + BOIL_PT;
     avgTemp = avgTemp / 2.0;

     cout << "Halfway between is ";
     cout << avgTemp << " degrees." << endl;

     return 0;
}
```