

# CMPS 150

Fall 2005

## Programming Assignment #1

2005.09.02

**Date Assigned:** Friday, September 2, 2005

**Due Date:** 10:00 PM, Friday, September 9, 2005

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The coded solution to the following problem is to be done by you and only you. You may ask help from the class teaching assistants and the instructors, but you may not ask for C++ help from anyone else. You may use your notes, C++ texts, online tutorials, etc., but the code must be your own.

If you have a problem with your class account, compiling or debugging your code, or if you are not certain if you have submitted correctly, come see a TA or instructor as soon as possible.

1) Include the following information as documentation in the header of your source code:

```
Author:          Your-Name
CLID:           Your-login-ID
Class:          CMPS 150 Section Your-Section-Number
Assignment:     pa1
Date Assigned:  Friday, September 2, 2005
Due Date:       10:00 PM, Friday, September 9, 2005
Description:    A brief description of the purpose of the program.
Certification of Authenticity:
I certify that this assignment is entirely my own work.
```

2) While in your class folder (cs150x), enter the C++ code (in step 3) into a file named **pa1.cc**

*NOTE: The character following a is a one (1), not the letter l.*

3) C++ code for pa1.cc

```
//*****
// NAME:          your name goes here
// CLID:          your login id goes here
// Class:         CMPS 150 Section X
// Assignment:    pa1
// Date Assigned: Friday, September 2, 2005
// Date Due:      Friday, September 9, 2005 -- 10:00 pm
// Description:   This program asks for a temperature in degrees
//               Fahrenheit, then converts it to its Celsius equivalent.
// I certify that this assignment is entirely my own work.
//*****

#include <iostream>
using namespace std;

int main()
{
    int    degreesF;
    double degreesC;

    cout << "Enter a temperature in degrees Fahrenheit: ";
    cin >> degreesF;

    degreesC = (degreesF - 32) * 5.0 / 9.0;
    cout << "The Celsius equivalent is: " << degreesC << endl;

    return 0;
}
```

### Example Runs

NOTE: Text that is bold, italicized and underlined is typed by the user running the program.

```
d45.ucs.louisiana.edu% palrun
Enter a temperature in degrees Fahrenheit: 32
The Celsius equivalent is: 0
d45.ucs.louisiana.edu%
d45.ucs.louisiana.edu%
d45.ucs.louisiana.edu% palrun
Enter a temperature in degrees Fahrenheit: 212
The Celsius equivalent is: 100
d45.ucs.louisiana.edu%
```

- 4) Again, you MUST name your source file 'pal.cc' and you MUST store it in your class directory (cs150x).
- 5) Compile your program and test it. (see Some Unix Help for quick assistance)

```
g++ -o palrun pal.cc
palrun
```

- 6) After it is debugged, while in your class directory and submit **pal.cc** (the source file only) electronically by **10:00 PM, Friday, September 9, 2005** to receive full credit.

```
submit -d pal.cc
```

You will be asked for the login ID of the class grader. The login ID for all TAs/graders are listed below.

		<u>CLID (login ID) of TA</u>
Section 3	Gesan	<b>gxw2096</b>
Section 4	Anca	<b>axd9917</b>
Section 5	Mitun	<b>mxh2169</b>
Section 6	Jason	<b>jbm8240</b>

You will be asked to enter the assignment name. The assignment name is:

```
assn1
```

REMINDER: You can turn in programs up to 24 hours late for a maximum of 75% credit, or up to 48 hours late for a maximum of 50% credit.