MAT 101 — Introduction to Computer Programming (C++)

Handout #3

Today's tasks:

1. Change password on albert using passwd

2. More with ls (ls -al)

3. Learn about types: int, float, double, char, bool (p. 9)
   Some examples: int x; float y;

4. Understand assignment (p. 11)
   Some examples: x = 10; float z=10.1;
   velocity = acceleration * time; count = count + 1;

5. Assignment compatibility (p. 14)
   An example: int variable = 2.99;

6. Lvalue vs. Rvalue

7. Understand basic *cout* and *cin* (p. 27)
   Some examples: cout << "Hello. X=" << x << endl;
   cout << "Input a value for float z: " << endl;
   cin >> z >> endl;

8. Today's Classwork:

   (a) Open your Makefile and make it compile source cw1.cpp into cw1

   (b) Open a file cw1.cpp

   (c) Write a program that prompts the user and reads in a double. (cout/cin)

   (d) Upgrade the program to output the double to the screen (cout)

   (e) Upgrade the program to multiply the number by 1.8 and then adds 32 to
       the product. This translates Celsius into Farenheit. (assignment)

   (f) Now upgrade your program to prompt for Celsius and give the output of
       the converted temperature in Fahrenheit.(2 couts, 1 cin and 1 assignment)

9. Homework:

   (a) Page 41 Problem #1

   (b) Due 2/3/5.

   (c) Call the source file hw1.cpp, the executable hw1

   (d) Upgrade your Makefile to work with hw1.cpp and hw1