**Lab Assignment #1 CS 1021C-002 - Spring 2014**

**Objective:**

Introduction to Unix, including using Unix commands, editing files (Emacs or Vim), compiling, and so forth on the Unix/UCfilespace platform. How to turn in files (Cascade server.

**Reading:** Chapter 1, PPT slides, Unix primer.

**Due:** Uploaded to server by end of lab on Wednesday, Jan 15.

**Lab Problems:**

**Task 1:** Create, compile and run the shortest possible C++ program “int main(){}”. Now edit the file so that it prints out “I’m a hello world C++ program”. No submission is required for this task.

**Task 2:** Compile and run the following program several times with different inputs. Try to enter data that gives broken or unexpected results. No submission required.

// Program example   
//   
#include <iostream>  
using namespace std;  
  
// function that gets an integer from the user  
int getNumber()  
{  
 int number; // holds user input integer  
 // ask user for and store integer  
  cout << "Enter an integer: ";  
  cin >> number;  
  return number; // return integer entered by user  
} // end function getNumber

int main()  {  
 int number = getNumber();// get integer from user  
 if ( number <= 0 ) {  
 return 0;  
 } else {

// display integers from one to user input number  
 for ( int i = 1; i <= number; i++ ) {  
   cout << i << endl;

}

}  
  return 0;  
}

**Task 3:** Create a program called lab1.cpp. This program you will create will do some basic input and output. You are to write a riddle program that presents a series of clues to the user. After each clue the program will pause and ask if any more clues are needed.

Below is a riddle program example that you can use as a template. Notice the comments and documentation. Modify the comments at the head of your program, and substitute your own riddle. This and every program you turn in this term should be properly documented. Make sure that your program compiles and runs satisfactorily before submission.

**Submission process:** Upload your program called lab1.cpp using the Cascade submission facility.

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//

// Title: A riddle program for Lab 1

// Author: Joe Doe Riddler

// CS1021-00X Date: January X, 2014

// Laboratory: 1

//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//

// Description: This program presents a riddle to the user with a series clues.

//

// Input: Only from user.

//

// Output: Displays to the terminal a series of riddle clues and the answer.

//

// Procedure: Each riddle clue is displayed. There is a wait until user

// input is read to determine if next clue should be displayed.

// Finally, when the user needs no more clues the riddle answer is displayed.

//

// Constraints: The riddle should have at least 2 clues and be G-rated.

//

// \*\*\*\*\*\*\*\*Begin Program\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#include<iostream>

using namespace std;

int main () {

cout << "Welcome. Here is a riddle:\n";

cout << "If you say my name, then I am gone. Who am I?\n";

cout << "Do you need another clue? (y/n)";

char response;

cin >> response;

if (response == 'y') {

cout << " OK. Here is the next clue. \n";

cout << " If you say nothing, then I am golden.\n";

}

cout << " Hit any key then enter to see answer";

cin >> response;

cout << "If you said \"silence\", then you are correct.\n";

return 0;

}

//\*\*\*\*\*\*\*\*End of Program \*\*\*\*\*\*\*\*\*\*\*