```
Last login: Thu Sep 20 10:27:24 on ttys000
wc-dhcp8d151:~ fennec2000$ ssh qin@linprog5.cs.fsu.edu
                    -=-= AUTHORIZED USERS ONLY =-=-
You are attempting to log into a FSU Computer Science Department machine.
Please be advised by continuing that you agree to the terms of the
Computer Access and Usage Policy of the Department of Computer Science.
                    -=-= AUTHORIZED USERS ONLY =-=-

qin@linprog5.cs.fsu.edu's password:
Last login: Thu Sep 20 10:10:25 2018 from 10.132.8.151
            %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
            %                                              %
             %  DEPARTMENT OF COMPUTER SCIENCE  %
              %    Florida State University    %
             %                                            %
            %                                              %
            %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

           No mudding, IRC, or other games from here.
   Please get a private sector account for non-CS activities.

     See http://www.cs.fsu.edu for departmental information.
      See http://system.cs.fsu.edu for Systems information.
             Send email to help@cs.fsu.edu for help.


                          Attention!!

If you forward your CS email to your FSU emailbox, make sure your FSU
email address is up to date or you may miss important emails.

If you are over your disk or file quota, please check your CS email for
instruction on how to locate and remove files

To download Tectia, go to link https://system.cs.fsu.edu/ssh-tectia/.
If you are off FSU campus, use following ID to access the page:
User Name: sshcs
Password: letmedownloadit

For students: check your CS email at http://webmail2.cs.fsu.edu

qin@linprog5.cs.fsu.edu:~>~vastola/usub/submit1 grade.cpp
******************** File submitted **********************
   Here are the contents of your submitted file:
************************************************************
/* Name: Caijun Qin
Date: 09/16/2018
Section: 6
Assignment: 2
Due Date: 09/21/2018
About this project:
This is a semester final grade calculator specifically for the course COP3363.
The user will be asked to provide specific numerical grades for homework,
recitations, tests, and extra credit. The program uses this information to
compute an average for each category of assignments.

Assumptions: Only valid homework scores, recitation grades (either 20,10 or 0),
and test grades will be entered by the user when prompted.
All work below was performed by Caijun Qin */


#include <iostream>
#include <iomanip>
using namespace std;

int main() {
    //sets % sign to be printable
    char percentSign = '%';

    /***VARIABLE DECLARATIONS FOR GRADES***/
    //HOMEWORK
    double hw1, hw2, hw3, hw4, hw5, hw6, hw7;

    //RECITATION
    double rec1, rec2, rec3, rec4, rec5, rec6;

    //TESTS
    double midTermI, midTermII, Final;

    //EXTRA CREDIT YES OR NO, and the number of points earned
    char extraCredit;
    double ecPoints;

    //welcome message to user
    cout << "Welcome to the Grade Calculator! \n \n";

    //prompts the user to list out homework grades
    cout << "HOMEWORK GRADES --> \n";

    cout << "Homework 1:" << "  ";
    cin >> hw1;
    cout << "Homework 2:" << "  ";
    cin >> hw2;
    cout << "Homework 3:" << "  ";
    cin >> hw3;
    cout << "Homework 4:" << "  ";
    cin >> hw4;
    cout << "Homework 5:" << "  ";
    cin >> hw5;
    cout << "Homework 6:" << "  ";
    cin >> hw6;
    cout << "Homework 7:" << "  ";
    cin >> hw7;

    cout << "\n";

    //prompts the user to list out recitation grades
    cout << "RECITATION GRADES -->" << "\n";
    cout << "Recitation 1:" << "  ";
    cin >> rec1;
    cout << "Recitation 2:" << "  ";
    cin >> rec2;
    cout << "Recitation 3:" << "  ";
    cin >> rec3;
    cout << "Recitation 4:" << "  ";
    cin >> rec4;
    cout << "Recitation 5:" << "  ";
    cin >> rec5;
    cout << "Recitation 6:" << "  ";
    cin >> rec6;

    cout << "\n";

    //prompts the user to list out test grades
    cout << "TEST GRADES -->" << "\n";
    cout << "Midterm I:" << "  ";
    cin >> midTermI;
    cout << "Midterm II:" << "  ";
    cin >> midTermII;
    cout << "Final:" << "  ";
    cin >> Final;

    cout << "\n";

    //extra credit inquiry and points
```

```
    cout << "Is there any extra credit to add in? (Y or N) -->";
    cin >> extraCredit;

    if(extraCredit == 'Y' || extraCredit == 'y'){
        cout << "How many extra credit points should be added? -->";
        cin >> ecPoints;
        cout << "\n";
    } else if (extraCredit == 'N' || extraCredit == 'n'){
        ecPoints = 0.00;
    } else {
        cout << "Invalid option, exiting program." << "\n";
    }

    //equations to calculate final averages and letter grade
    char letterGrade;

    double hwAvg = (((hw1 + hw2 + hw3 + hw4 + hw5 + hw6 + hw7) +
    (rec1 + rec2 + rec3 + rec4 + rec5 + rec6) + ecPoints) / 820) * 100;

    double testAvg = ((midTermI * 17.5) + (midTermII * 17.5) + (Final * 25))
    / 60;

    double courseAvg = ((midTermI * 0.175) + (midTermII * 0.175) + (Final * 0.25)
    + (hwAvg * 0.40));

    //designation of letter grade
    if (courseAvg >= 90.00){
        letterGrade = 'A';
    } else if (courseAvg < 90.00 && courseAvg >= 80.00){
        letterGrade = 'B';
    } else if (courseAvg < 80.00 && courseAvg >= 69.00){
        letterGrade = 'C';
    } else if (courseAvg < 69.00 && courseAvg >= 60.00){
        letterGrade = 'D';
    } else if (courseAvg < 60.00 && courseAvg >= 0.00){
        letterGrade = 'F';
    }

    //displays the grade averages by category
    if(extraCredit == 'Y' || extraCredit == 'y' || extraCredit == 'N' || extraCredit == 'n'){
    cout << "Homework Average:" << fixed << setprecision(2) << hwAvg << percentSign << "\n";
    cout << "Test Average:" << fixed << setprecision(2) << testAvg << percentSign << "\n";
    cout << "Course Average:" << fixed << setprecision(2) << courseAvg << percentSign << "\n";
    cout << "Course Grade:" << letterGrade << "\n";
    }

    return 0;
}



********************* END FEEDBACK ***********************
*     PLEASE VIEW ABOVE TO VERIFY THE CONTENTS OF         *
*              YOUR SUBMITTED FILE                        *
************************************************************
qin@linprog5.cs.fsu.edu:~>
```