**CST 231 PLTL Week 3**

**Exercise 1:**

What does the following code print when the user enters 98? 90? 85? 80? 50?

Work individually first, then discuss with your group. Lastly how might you change the code to output properly?

int grade;

cout << "Please enter a grade: ";

cin >> grade;

if (grade >= 90)

cout << "You got an A!" << endl;

if (grade > 80)

cout << "You got a B!" << endl;

if (grade > 0)

cout << "You got something else" << endl;

**Exercise 2:**

Which of the code snippets work as they should (printing a correct grade)?

Work individually first, then discuss with your group.

int grade;

cout << "Please enter a grade: ";

cin >> grade;

// code snippet #1

if (grade >= 90)

cout << "You got an A!" << endl;

if (grade > 90 && grade >= 80)

cout << "You got a B!" << endl;

if (grade < 80)

cout << "You got something else" << endl;

Does it work? If not, for

which grades does it fail?

// code snippet #2

if (grade >= 100 && grade >= 90)

cout << "You got an A!" << endl;

if (grade >= 90 && grade >= 80)

cout << "You got a B!" << endl;

if (grade > 0)

cout << "You got something else" << endl;

Does it work? If not, for

which grades does it fail?

// code snippet #3

if (grade >= 90)

cout << "You got an A!" << endl;

if (grade < 90 && grade >= 80)

cout << "You got a B!" << endl;

if (grade < 80)

cout << "You got something else" << endl;

Does it work? If not, for

which grades does it fail?

**Exercise 3:**

Create a calculator, write a program that will take in 2 numbers then prompt the user

to select what operation they want to perform on the 2 numbers. Your program might print an

options similar to the one below, where the user enters a number to select which operation they want to perform.

1. Add

2. Multiply

3. Divide

4. Subtract

**Exercise 4:**

1. Using a loop if statements create a program that will output the following:

1

12

123

1234

12345

**B)** Using loops and if statements try to print a giant tree with \*’s. Have Fun!