**HINTS FOR ASSIGNMENT 3**

**Note: All programs have more than one algorithm that you can use to code them. The hints that I give you can be followed exactly or you can use yur own algorithm as long as it complies with the assignment requirements**

**PLEASE READ THE CHAPTER, NOTES, AND THE POWER POINT SLIDES BEFORE START CODING**

**Hints for coding Part 1:**

1. You need to declare variables toi hold the lengths, widths, and areas of both rectangles – total of 6 variables. I suggest that you use ineteger data types for this one
2. Then you calculate the 2 areas
3. Compare the 2 areas and display your findings:

If ( area1 == area 2)

Rectangles are equal

else if ( area1 > area2)

Rectangle 1 is bigger

else

Rectangle 2 is bigger

**Hints for coding Part 2:**

Use your code from assignment 2 part 3

You need to add 1 more (integer) variable that is going to hold the user answer (you will prompt for an answer and then store it ( cin>> ) in that variable

Then you have to compare the 2 answers (the one that you compute after you generate the random numbers and the one the user enters)using if statement.

If they are the same, you display a greeting to the user that he is very smart. If they are not the same, display a message informing the user that they are wrong and display the correct answer

For people who did not use random numbers: Please use random numbers for this one. The entire code of how to generate random numbers is given in the previous assignment hints)

**Hints for coding Part 3:**

**This part is the most difficult one because it requires a lot of error checking.**

1. Display a menu with choices about which geometric figure the user wants to find the area ( just like it is given in the assignment description)
2. Read user input into a variable named choice or option, or whatever you like to name it.
3. Using an if…else statement check if the user entered a choice between 1 and 4. Note: if the input is good, you proceed with switching the option, if not , in the else statement, display that the user entered out of range choice.
4. If option is within range, switch the choice:
5. You will have 3 cases that will ask the user for input and calculate the area of the corresponding geometric figure. Case 4, being the exit case will display “Good bye” or whatever you decide to display as a greeting.
6. Error checking for negative numbers have to be performed using if else statement within the cases for each choice.