Lab #5 (10 points)

1. Write a program that allows the user to take a 5-question multiple-choice exam on a subject of your choosing. The program should:
   • display each question, with 4 answer options;
   • read the user’s answer;
   • keep track of the number of right and wrong answers;
   • display the results at the end of the program

An example of a typical question would look like this:

1) What is the capital of the state of Kentucky?
   a) Lexington
   b) Louisville
   c) Frankfurt
   d) Bowling Green

Your answer:

An example of the results section might look like this:

You got 5 right and 0 wrong.

Hints:
• You will need variables to keep track of the number right and the number wrong. Initialize both of these variables to 0 when you declare them.
• You only need to declare one variable to hold the answers the user will enter – this is not a value that you need to hold on to once its correctness (or lack thereof) has been recorded.
• You should allow the user to enter either upper or lowercase letters when answering the questions; in other words, the question above should be counted right if the user enters either c or C.

2. Write a program that takes the x-y coordinates of a point in the Cartesian plane and prints a message telling where the point lies (which quadrant, axis, or at the origin).

   Y axis
   
   Q2 | Q1
   
   -----------------------------X axis

   Q3 | Q4

Sample output:

(-1.0, -2.5) is in quadrant III
(0.0, 4.8) is on the Y axis