MCS 260 Project Six: a GUI for an automated quiz
due Monday 10 December at 1PM

The goal of this project is to develop a Graphical User Interface (GUI) to an automated quiz. The program for an automated quiz was developed in Lecture 19, as an illustration of modular design. Several very interesting extensions to the questions and answers module were returned in answer to a homework assignment.

The GUI should provide the same functionality as the main program quiz.py of Lecture 19, in particular:

1. random generation of the questions and permutation of the alternatives;
2. show the tally of the results at the end of the quiz.

While the project does not detail the specifications of the GUI, the goal of the project is to develop a program that is nicer to the user than the original quiz.py of Lecture 19. For example, the GUI could always show the current tally, and thus in this way give immediate feedback to the user. You could also provide a “cheat” button, where the user gets to see the correct answer.

The final due date is the start time of the final exam, because if you think of good computer literacy questions, solving the project is a dynamic way to organize the course materials — think of questions like: in which lecture did we cover open source — and thus prepare for the final exam. Some important points:

1. Think of the layout of the GUI first. A good layout — even without the actions associated with it — could already bring in half of the points.
2. Develop the GUI in an object oriented fashion and provide appropriate documentation, i.e.: every function must have a documentation string.
3. Handing in an incomplete but working program is better than handing in a program that crashes or does not run at all.
4. The first line of your Python program must be

    # MCS 260 Project Six by <Author>

    where you replace the <Author> by your name.

5. Email your solution to the project to jan@math.uic.edu before 1PM on Monday 10 December so the date of the email is proof of an on time submission. As a backup, bring also a printed version of your solution to the final exam.

If you have questions or difficulties with the project, feel free to come to my office for help.