

3328.01 – OOP in C#

Final Exam

Due: 12/16 at 11:59 PM

We will write a console application which allows a user to take a quiz.

Note that this is **not a form application**.

In the quiz, there will be three types of questions:

True/False

Multiple Choice

Short Answer (One Word)

You will write an **abstract class Question**. Each Question should have a String which stores the question being asked and the point value for the question. Then **three classes which inherit from Question** will be written: QuestionTrueFalse, QuestionMultipleChoice, and QuestionShortAnswer.

Your program should also include a class **Student** which stores the student's name who is taking the quiz, and their score which will be reported at the end of the quiz.

The questions for the quiz should be **stored in a file**. You can choose the format (.txt, .XML).

Then, the program flow should be as follows:

1. Load the questions from the file
2. Prompt the user to enter his name
3. Ask the user each question
  - a. If he is correct, add the points for the question to his score total
  - b. If he is incorrect, do not add the points
4. Report the grade to the user

Note: Please see the **abstract class notes** for some reminder on how to use abstract classes.

**Bonus:** You can get up to 10 bonus points for implementing a graphical user interface for this project.