

Exam 02

Your organization needs an Examination system according to the following business case:

1. Design a Class to represent the Question Object, Question is consisting of:
 - a. Header of the question
 - b. Body of the question
 - c. Mark
2. System has two types of exams (Final and Practical)
3. We want the application to accept different Question Types:

For Final Exam:

- a. True or False
- b. MCQ (Choose one answer)

For Practical Exam:

- a. MCQ

Note: We need to define a Base Question class and every type as an inherited one.

4. We need to define a class for the answers (AnswerId, AnswerText).
5. Question is associated with an Array of answers and its right answer (Answers [] AnswerList) .

6. Design a Base class Exam describe the common attributes concerning the exam:

- a. Time of exam
- b. Number of Questions
- c. Show Exam Functionality that its implementations will be different for each exam based on its type.

7. Every Exam object is Associated to a Subject.

Note: The Subject is a class that contains the following members:

- a. Subject Id.
- b. Subject Name.
- c. Exam of the subject.
- d. We need to implement functionality to create the exam of the subject.

8- Practical Exam Shows the right answer after finishing the Exam.

9- Final Exam Shows the Questions, Answers and Grade.

10- In the Main you need to declare a subject object to create one type of exam.

Note: Implement Icloneable, IComparable, consider overriding ToString, use constructor chaining (If needed).