Your organization needs an Examination system.

**Replace any mention to List Class with an Array**

Design a Class to represent the Question Object, Question is constructed from a Body, Marks, and Header and ……..

We want the application to accept different Question Types, True or False, Choose One and Choose All each has a different way off representation.

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

**Design a class to represent the Question list by inheriting the List<> class**

**Override the Add Method, keep the default behavior for the Add Method and add logic to open a file and Log the Questions in it, every Question Object of Question List will be logged to a Same file.each Question List has Different File**

**(help on TextWrite and TextReader Class ).**

We need to define a class for the answers and also the Answer List.

Question Object is associated with an Object of AnswerList

Design a Base class: Exam, exam class describe the common attributes concerning the exam, Time, number of Questions, **Question Answer Dictionary(Which will be used for Exam Correction)** , a Show Exam Functionality that it’s implementations will be differed to the further classes in the hierarchy

Every Exam object is Associated to a Subject Object (implement any desired Subject class members)

We have two types of Exams , Practice Exam and Final Exam , Practice exam shows the right answer after finishing taking the Exam , while the Final Exam Only Shows The Question and Answers .

**You want to consider what type of constraints you need to add to this Generic class**

In the Main declare two objects one of practice exam and one final Exam

We need the end user to select the Exam Type , and upon this choice we will show the Exam .

Implement Iclonable , IComparable , consider overriding ToString , **Equals , GetHashCode** all the constructors use chaining .

**Every exam has a mode : Starting , Queued , Finished**

**When the exam in Starting Mode , Every Student taking this subject should be notified ( implement the desired class hierarchy and implement the required evens and delegate to produce this functionality )**

**Don’t forget Use the XML Comment, help on the meaning of every element, and generate the Help file.**