Class GradedActivity

This class holds a record of some sort of grade. It has a private type double attribute named “score”. It has functions like ”setScore()”, “getScore()”, and “getChar()”. The “setScore()” function takes a double type variable and stores it on the “score” attribute. The “getScore()” function returns the value of the “score” attribute. The “getGrade()” function returns the respective grade for a given “score”, like ‘A’ for 80+, B for 70 – 80, and so on.

Interface Relatable

This interface has the basic contructs (blueprint) for three functions: “equals()”, “isGreater()”, “isLess()”. These functions are later to be implemented by FinalExam3 class.

Class FinalExam3

This class inherits GradedActivity class. Which means it inherits all attributes functions of the parent class. FinalExam3 class is mainly used to record the grade of a given final exam. It calculates the scored grade of a given final by taking in number of questions, number of missed and the points each questo. This class also implements the Relatable interface. Which means it implements the three constructed functions of the interface. For a given FinalExam3 object, “equals()” checks whether the score of a GradedActivity object is equal to the score of FinalExam3 object. “isGreater()” and “isLess()”check whether score of GradedActivity object is greater or less than the score of the FinalExam3 object.