Assignment #3

1. In at least one of your data classes from the previous assignment, add another field of type
   1. enum.
   2. i.e. If one of your data classes was Teacher for example, add a field called Gender which is an enum and could be MALE or FEMALE
2. Modify your util class(es) to create 100 Random instances with java.util.Random, also populating this new field you just created above.
3. Create a relationship between your 2 data classes
   1. i.e., a Teacher can have multiple Students
   2. create a fictitious use case (now this is very, very, very specific to your project /idea) that deals with the relationship between these data classes
   3. In your util class (or another util class), create a Report that deals with this relationship
   4. Create a fictitious use case where 5% of the time something bad happens in the printing or populating (of these 100 random instances). When this “bad” thing happens,
      1. Create a RuntimeException (i.e. IHateThisTeacherException) and decide how you want to handle it.
   5. Create a fictitious use case where 1% of the time something very, very bad happens in the printing or populating (of these 100 random instances). When this “bad” thing happens,
      1. Create an Exception (i.e. IllegalImmigrantException) and decide how you want to handle this
4. Update your Test Driver, reporting util classes as necessary.

Hints: A lot of this assignment is very specific to your project. If you want to redo assignment #1 and #2 from scratch, be my guest. Part of the purpose of this assignment is for you to show me you understand enums and exceptions (checked vs unchecked, printing stacktraces) and get you more familiar with other java.util classes like Random. If writing an new proposal that makes more sense to you, then be my guest and start your project from scratch.

The other part of the purpose of the assignment is to show me you know how to design (IMHO, this is more important)

Same rules as the previous assignment on where to submit your work (pronounced GitHub)