**Java program description**

Our original java program is a system that generate automatic and manual exams for different purposes, such as academic exams, jobs interviews, polls and etc.

In addition, our system generates multiple Databases, each Database contains questions, answers and exams that can be created of them for a specific subject.

**How the system works:** when a user log in to our system he need to choose whether he want to create a new Database or get into an existing one. After he chose what he wants a window with variety of options appears. The user can add question and answers to be stored in the Database, the questions can be either open questions or multiple choice questions. If you choose to add open question, you have to link an answer from the Database to the question and the answer you chose can't be changed later. If you choose to add multiple choice question, you'll be able to link answers to the question only separately. The user also can remove an answer to a multiple choice question and remove any type of question from the Database.

In addition, the user can see all the questions and their answers that stored in the Database.

In addition, the user can create exam from the questions and answers that stored in the Database. If you want to create exam you can decide if you prefer generate automatic exam or create it manually. If you chose automatic exam, all you need to do is choose how many questions you want in the exam and our system will generate the exam for you by randomly choosing questions and answers that stored in the Database. If you choose to create the exam manually, first you have to choose how many questions you want to add to the exam and then all the questions that you can choose will be shown. If you choose to add multiple choice question, all answers that related to this questions along with their truth value in relation to the question will be displayed on the screen. You will be able to choose which answers you want to add but you have to choose at least 4 answers. After you finish to create the exam manually or automatically the system will generate 2 files, one contains the questions with their answers (without their truth value) and the second file contains the questions only with the correct answer to each question (open question will contain the "school answer").

**Java Program Description**

The original Java program is a system designed to generate both automatic and manual exams for various purposes, including academic assessments, job interviews, and polls. Additionally, the system is capable of generating multiple databases, each containing a collection of questions, answers, and exams specific to a particular subject.

**System Functionality:**  
Upon logging into the system, users are prompted to choose between creating a new database or accessing an existing one. Once a selection is made, a window with a variety of options is presented. Users can add questions and answers to the database, with the flexibility to include either open-ended or multiple-choice questions. For open-ended questions, users are required to link an answer from the database to the question, which cannot be modified afterward. In the case of multiple-choice questions, answers are linked individually, and users have the option to remove any answer from a multiple-choice question or delete any type of question from the database.

The system also provides the functionality to view all stored questions and their corresponding answers.

**Exam Creation:**  
The system allows users to create exams using the stored questions and answers. Users have the option to either generate an exam automatically or construct it manually. For automatic exam generation, users simply specify the number of questions they wish to include, and the system randomly selects questions and answers from the database to create the exam. When creating an exam manually, users first select the desired number of questions, after which all available questions are displayed for selection. If a multiple-choice question is selected, all related answers, along with their truth values, are shown, and users are required to select at least four answers.

Upon completion of the exam creation process, whether automatic or manual, the system generates two files: one containing the questions along with their answers (excluding truth values) and the other containing only the questions with the correct answer for each (with the "model answer" provided for open-ended questions).