**Applicant: Karen Wang**

GitHub: <https://github.com/KarenTW/Exam.git>

Program: JAVA

**Exam**

* Entry point : Main.java
* GUI for five exams : CardLayoutDemo.java

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| **Topic** | **JAVA file** |
| Q1. Write a function that takes a string as input and returns the string reversed. | ReverseString.java |
| Q2. Given a positive integer num, write a function which returns True if num is a perfect square else False. | PerfectSquareInteger.java |
| Q3. Given a set of non-overlapping intervals, insert a new interval into the intervals (merge if necessary). | NonOverlappingInterval.java |
| Q4. Given a 2D board and a word, find if the word exists in the grid. | ExistsWordinBoard.java |
| Q5. Calculate the sum of two integers a and b, but you are not allowed to use the operator + and | CalculateSumWithoutOperator.java |

**Execute jar file to display GUI**

Please execute the jar file on your desktop cmd.exe - /Exam/target/Exam\_Java-0.0.1-SNAPSHOT-jar-with-dependencies.jar using the following command

***java -jar Exam\_Java-0.0.1-SNAPSHOT-jar-with-dependencies.jar***

You will get the following GUI:









