**LAB PROJECT 1-A**

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**IDE USED:** IntelliJ IDEA

**Language Used:** Java

**MAIN CLASS:**

* Database.java

**HELPER CLASS:**

* GetKeyValue.java
* PutKeyValue.java
* DelKey.java
* WriteToFile.java

**Instructions To Run:**

* cd project1-A/
* javac Database.java
* java Database

Database.java is the main class, as we execute the above commands in the respective order, it creates *ouput.txt* file in which we need the final result and it creates index files(buckets) of type *file0.txt, file1.txt, file2.txt,….,file9.txt* based on the hash value of the keys.

These buckets contain the keys and values, keys ending with *‘0’* are in *file0.txt, ‘1’* are in *file1.txt* and respectively.

The *ouput.txt* shows the results corresponding to the instructions that are provided in the *input.txt* file.