**CSCI-6461: PROJECT – PART 2**

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**Technology Used**

Java OpenJDK 23

**How To Run?**

1. Make sure you have updated version of **JAVA** installed
2. Download the **ZIP** and extract ***Project1.txt*** file and ***JAR*** file in the same place.
3. Please use the following command in **Terminal/CMD** to run the ***JAR***:

**java -jar Simulator.jar**

1. After it run, you can provide the input file by clicking on IPL button which will open a dialog box. Select ***Project1.txt*** file from that dialog box and click open.

A computer screen shot of a computer

Description automatically generated

It will show that ***File Load Successful.***

1. You can start entering 20 values in the ***Keyboard*** section and can click on ***Insert*** to add them.

A screenshot of a computer keyboard

Description automatically generated

1. After providing 20 numbers, it will give you option to enter a number you to find the closest number within the given 20 elements.

A screenshot of a computer

Description automatically generated

1. After entering the number in Pop-up panel, it will find and display you the closest number to it among the given 20 elements.  
   **Example:** *I entered 66 and closest to it was 65 which has been provided in Printer screen*

A screenshot of a computer keyboard

Description automatically generated