

CSCI-6461: PROJECT 1

Designed by – TEAM 5

Avish Kaushik

Harichandana Samudrala

Technology Used

Java OpenJDK 23

How To Run?

1. Make sure you have updated version of **JAVA** installed
2. Download the **ZIP** and extract **loading.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
```

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



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

5. You can click on **Run** button or **SS** button to run the simulator as per your needs.

[illegible]

CSA Simulator

Team 5

The simulator displays the following state:

- General Purpose Registers (GPR):** GPR 0 contains 15, 14, 13, 12, 11, 10; GPR 1 contains 9, 8; GPR 2 contains 7, 6; GPR 3 contains 5, 4, 3, 2, 1, 0.
- Instruction Register (IR):** Contains the instruction 9 8.
- Program Counter (PC):** Contains 5.
- Memory Address Register (MAR):** Contains 4, 3, 2, 1, 0.
- Memory Buffer Register (MBR):** Contains 15, 14, 13, 12, 11, 10.
- Control Units:** The MFR (Memory Function Register) is set to 0, indicating Privilege mode.