

Submission Directory Structure:

CSAProgrammingProjectPart1 >

Source Code >

[=Contains Actual Source Code Directory]

assemblyload.txt

CSA6461Part1Team8.jar

ProgrammingProjectPart1DesignNotes.pdf

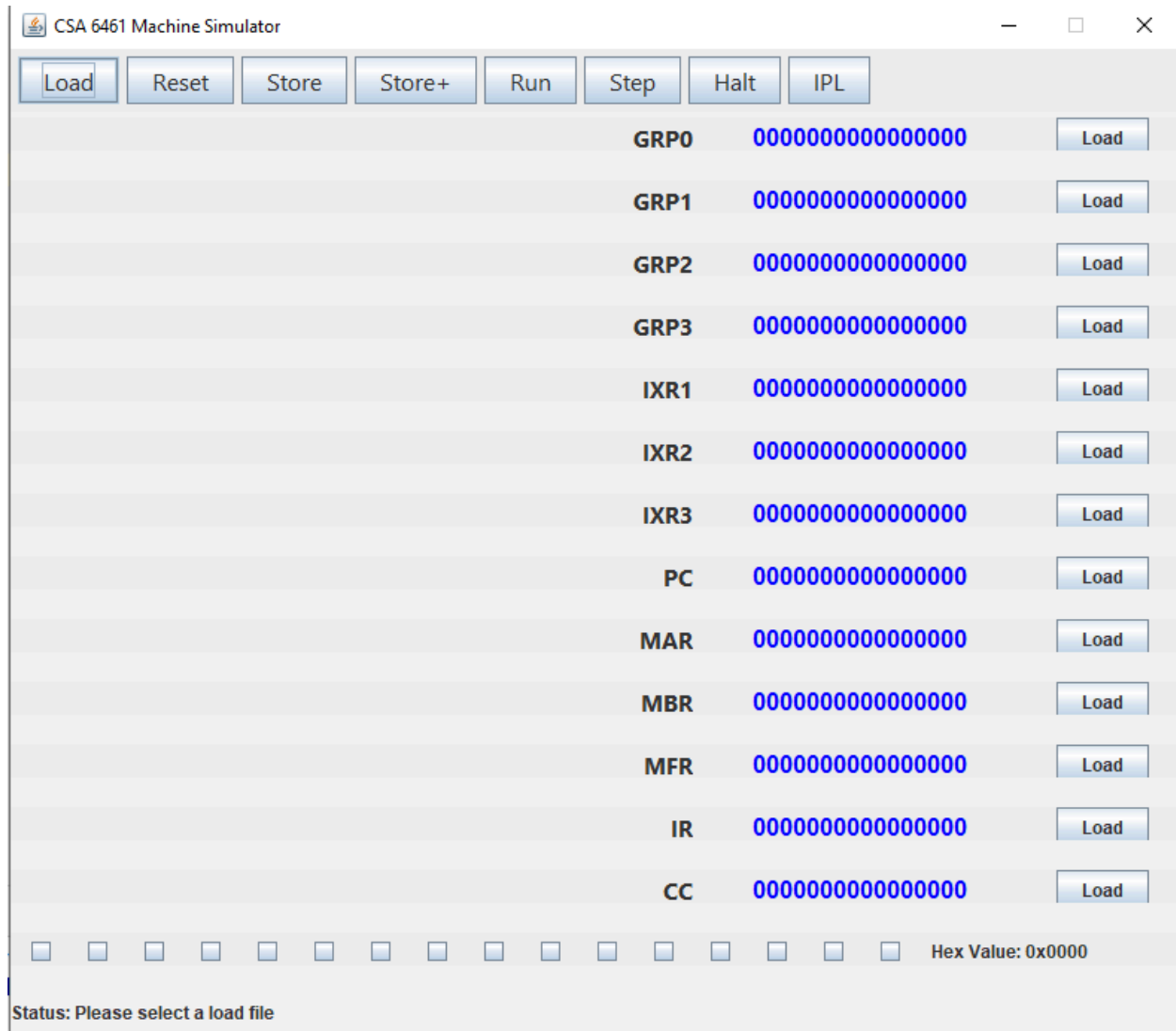
ProgrammingProjectPart1Usage.pdf

Source Code also uploaded to git repository:

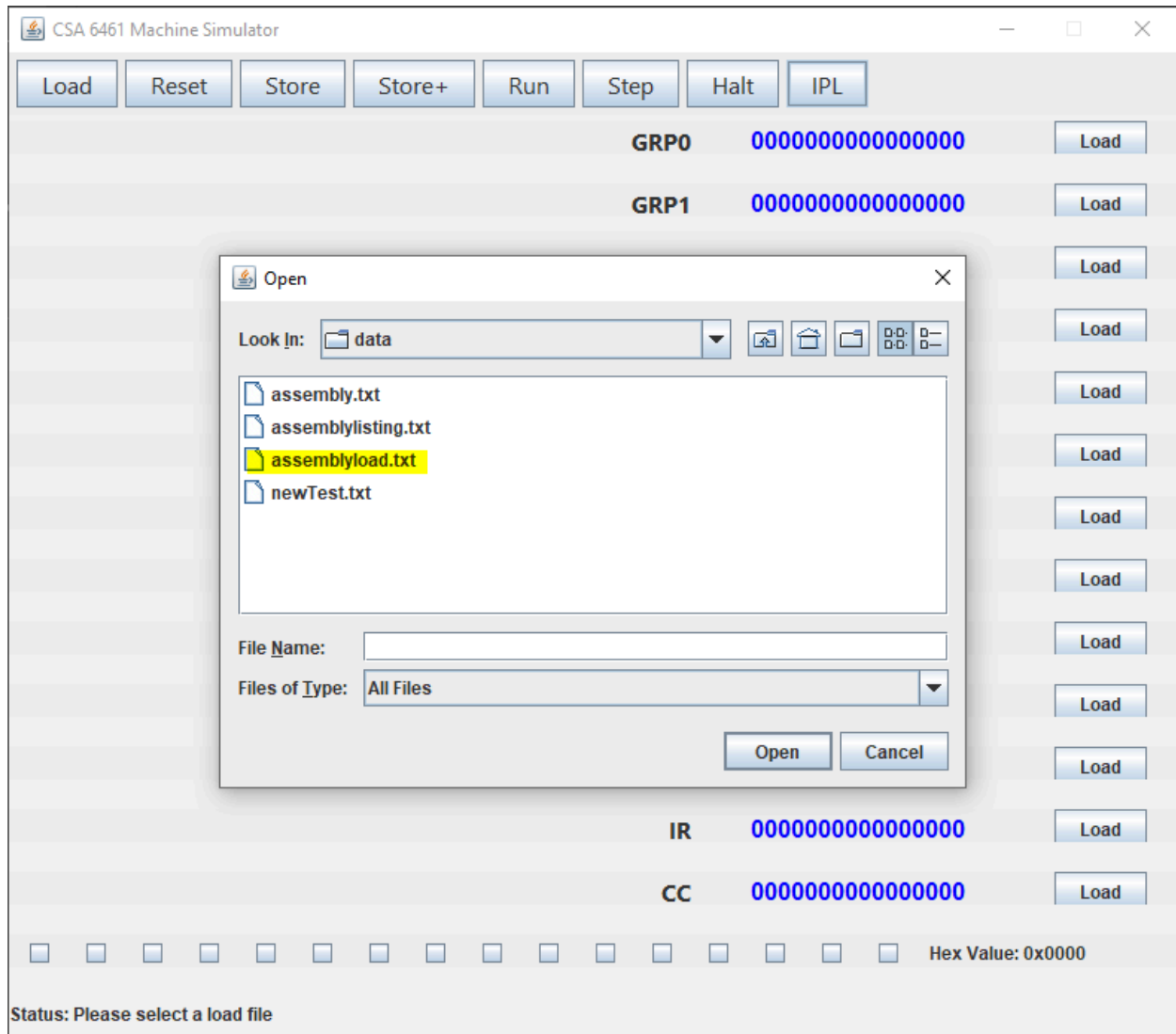
<https://github.com/insp7/csa6461Simulator>

1. Execute `CSA6461Part1Team8.jar` (Can double click to run)

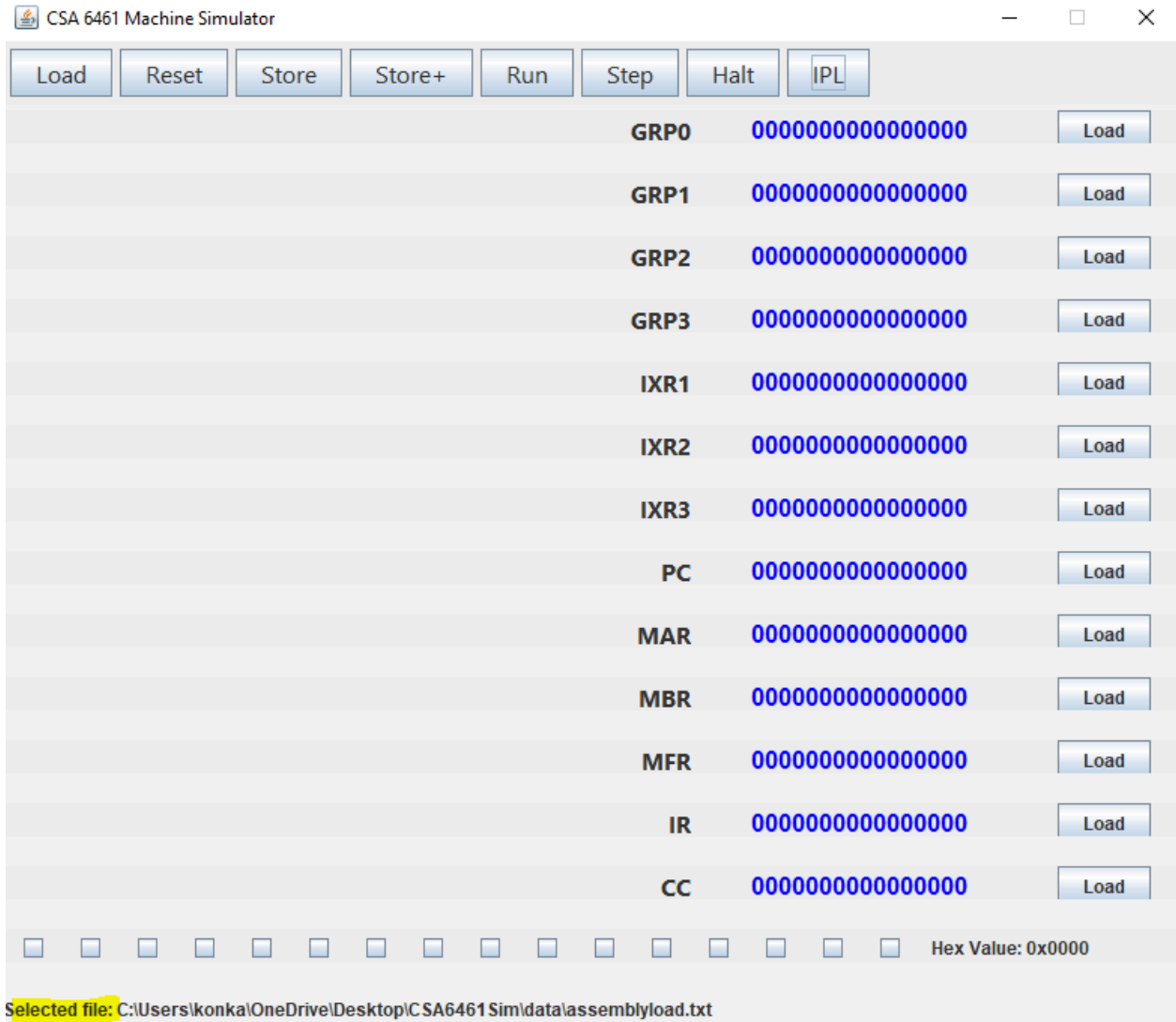
You will see the following output screen –



2. Click “IPL” Button at top and load the assembly load file(containing octal pairs) generated by the assembler. This assembly load file is named “assemblyload.txt”.



3. Confirm that the file is loaded properly by checking the status. It will mention the selected file name if it is loaded properly, else it will show error message.



4. Click “Run” to execute the program. It will start running and at the end of execution it will show the final updated contents of the register and memory.

CSA 6461 Machine Simulator

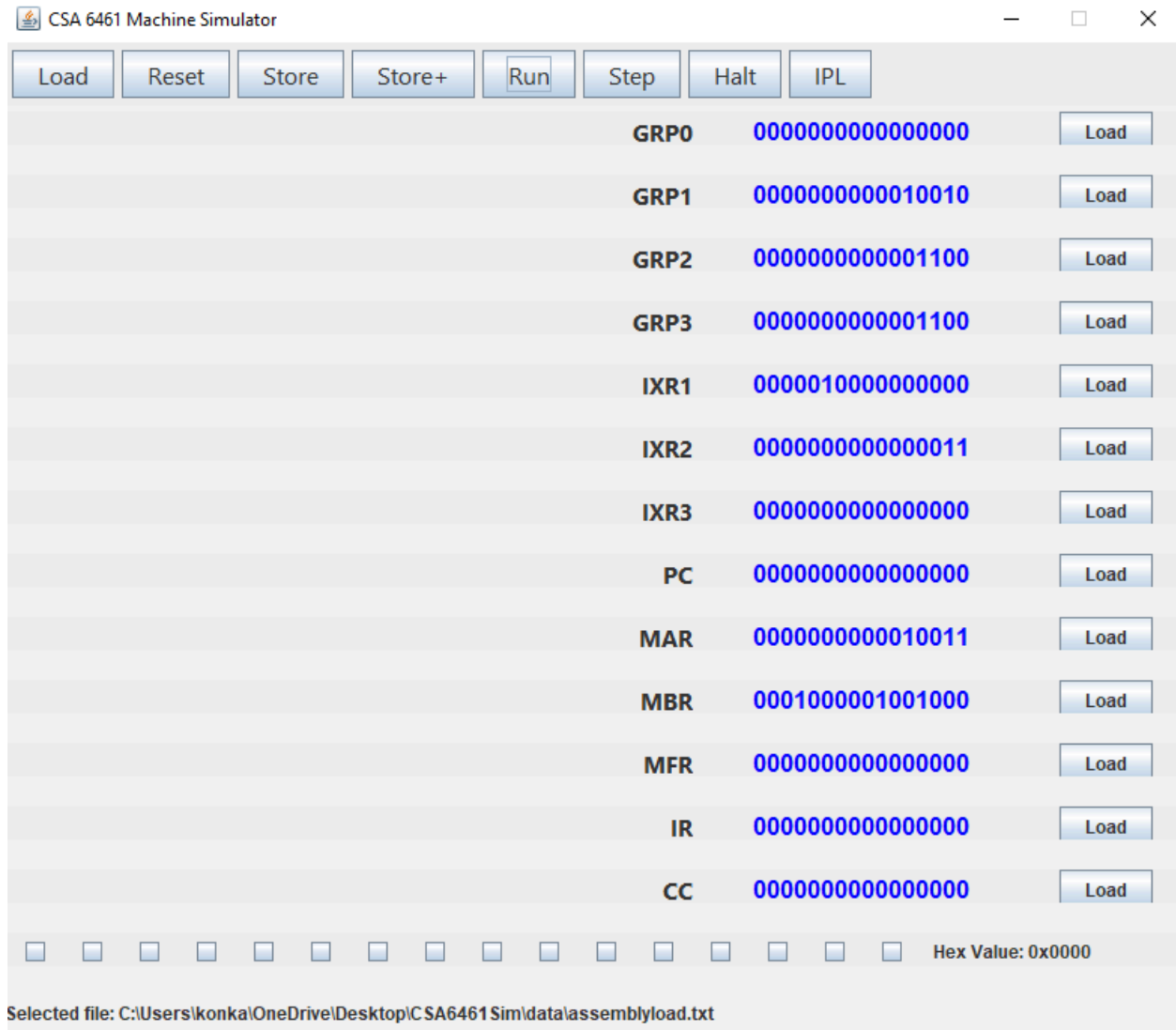
Load Reset Store Store+ Run Step Halt IPL

GRP0	0000000000000000	Load
GRP1	0000000000000000	Load
GRP2	0000000000000000	Load
GRP3	0000000000000000	Load
IXR1	0000000000000000	Load
IXR2	0000000000000000	Load
IXR3	0000000000000000	Load
PC	0000000000000000	Load
MAR	0000000000000000	Load
MBR	0000000000000000	Load
MFR	0000000000000000	Load
IR	0000000000000000	Load
CC	0000000000000000	Load

Hex Value: 0x0000

Selected file: C:\Users\konka\OneDrive\Desktop\CSA6461 Sim\data\assemblyload.txt

5. Final Updated contents:



NOTE:

You can click the “Reset” Button to reset the registers and memory data.

You can execute in single “Step” mode, by clicking the step button. To do so, just load the assembly load file and then start clicking the “Step” button. Each click is corresponding to one execution step. After every click you can see the contents of the register and memory being updated.