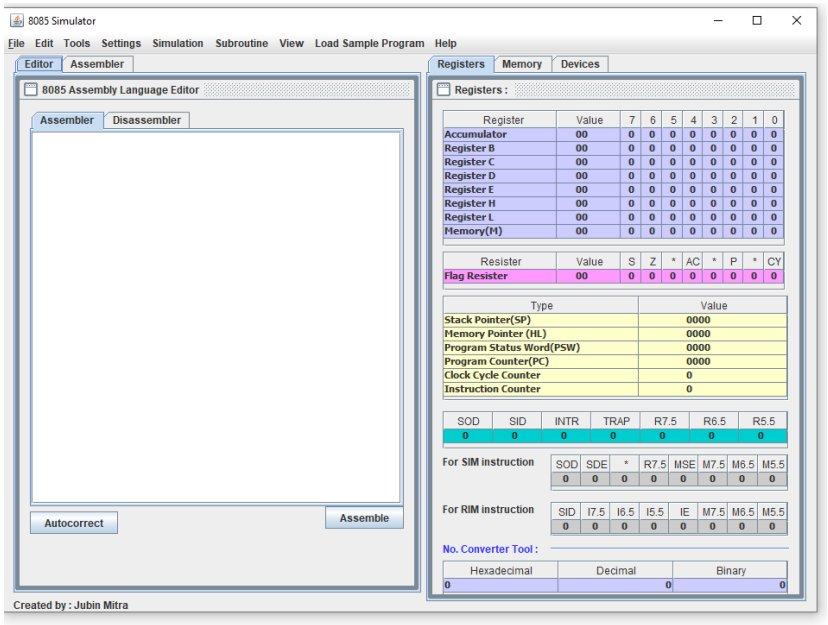
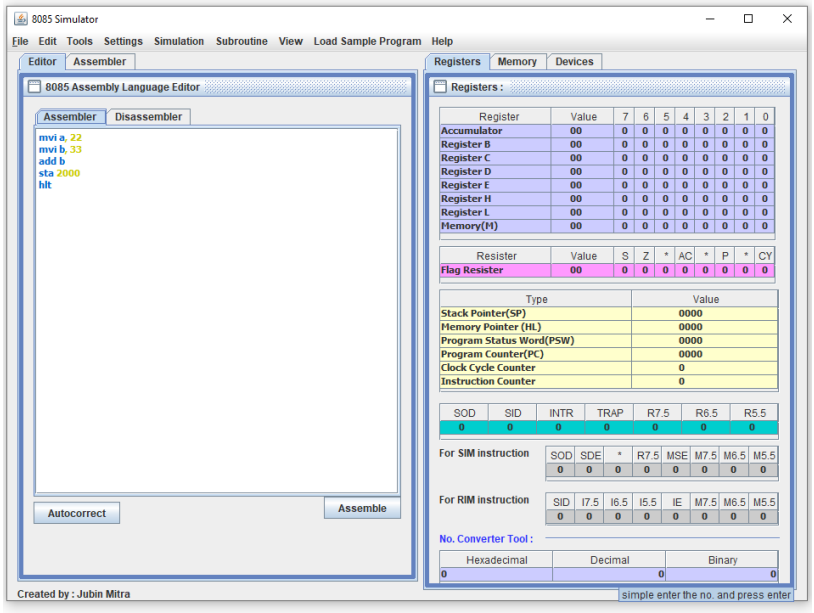
- Download 8085 compiler from the given link

  https://github.com/8085simulator/8085simulator.github.io

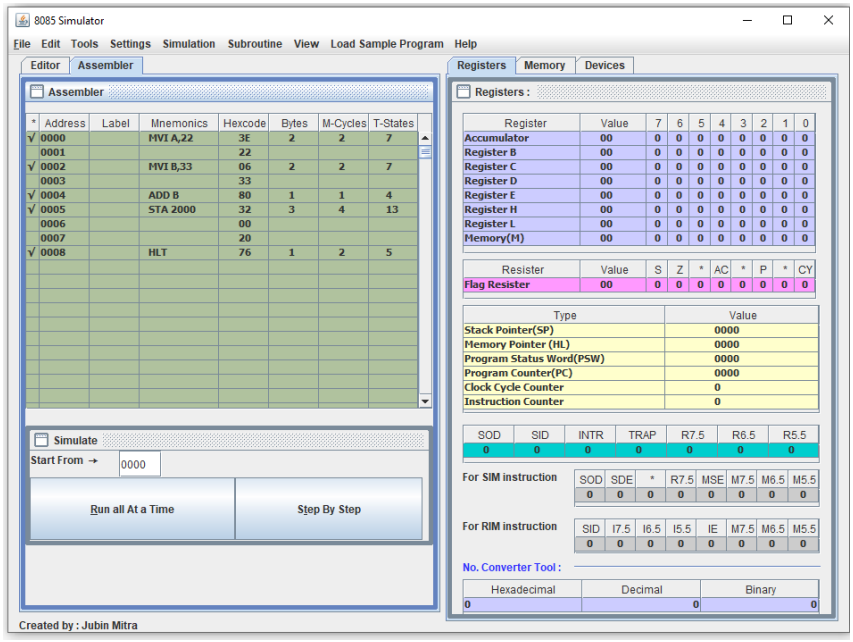
- **Perquisite**: You need to install **latest java version** in your PC
- In **Windows PC** simply double click **8085Compiler.jar** file. It will be open.
- In **Ubuntu PC** type this command in terminal **java -jar 8085Compiler.jar**. It will be open.
- You will see this type picture.



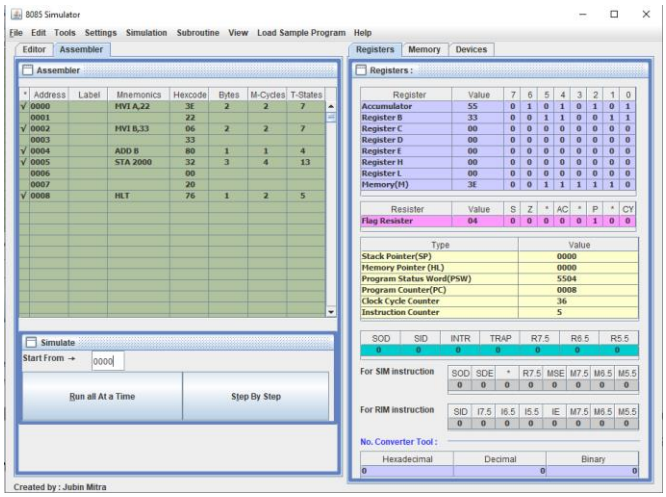
- You can write here your code here in assembly language.

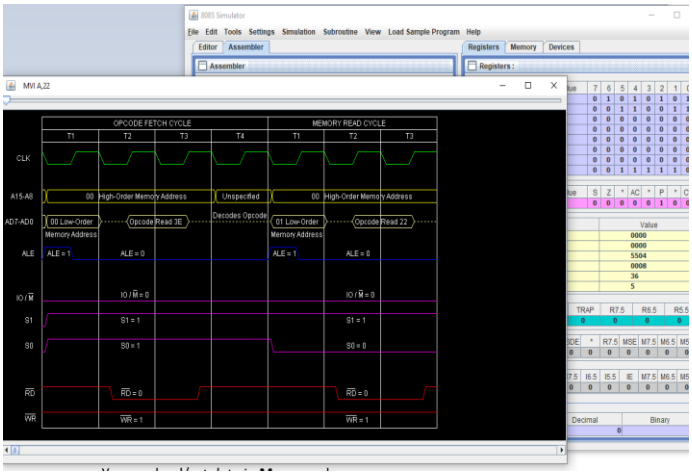


- After writing program you can click **Assemble** button below.

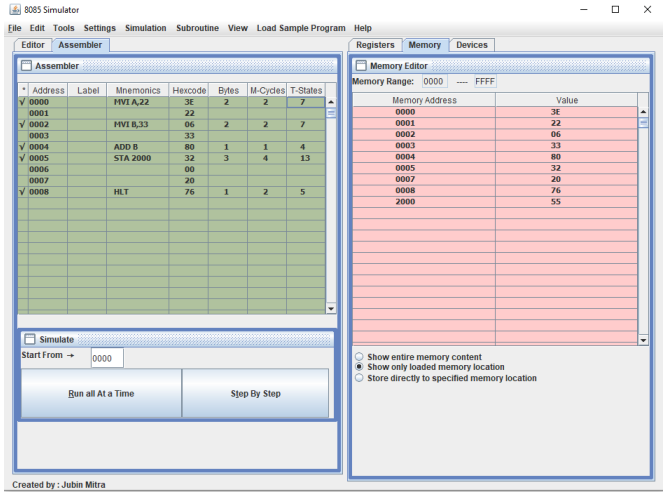


- Next you click on **Run all at time / step by step**. If you click on **Run all at time,** then it will run at once or if you click on **step by step,** then it will execute in machine cycle order. If you want to see the timing diagram of corresponding instruction, then click on corresponding instruction's **T-state** cell.





- You can load/set data in **Memory** also.



- In this simulator is very user friendly and very flexible.

Limitations

This or any 8085 simulator software is no way a replacement for real hardware. It only does functional simulation of the codes. It is not an emulator and hence do not expect that the timing information will be accurately modeled. However, the exact performance of the code can only be monitored in real 8085 microprocessor hardware.

Issues

Issue 1: DAA instruction wrongly toggles the carry flag if already there is a carry instead of setting it high, like take for example (88H + 88H). Users need to be cautious while using this instruction. It will be fixed in future realize v2.1.
Issue 2: In Assembler Window, during pre-processing stage of the code it flags error if ‘ ; ’ (SEMICOLON) comment marking character is followed after “ // ” (DOUBLE FORWARD SLASH).
Example! "<Label>: <Assembler Code> // <Comments> ; <More Comments>"

More details you can read the documentation uploaded in https://github.com/8085simulator/8085simulator.github.io .