

Computer Operation:

1. Double click the project02.exe file.
2. Click the Init button and choose program1.txt file
3. Click Run button to execute the program, the machine will let the user input 21 integers.
4. In each user input cycle, the machine will first print the words "Plz Input" into the scroll window and then pop out a window to let user input an integer.
5. User can input an integer between 0 to 65535 and press "OK" button.
6. After finishing inputting, the machine will display the closest integer into the white scroll window.
7. 16 buttons on the bottom side of the window can into 0 or 1.
8. Each LD button can be clicked to load the binary value
9. The Store button can store current MBR value into the memory, using current MAR value as the address.
10. The Load button can display the binary of address of current MAR in the memory on the MBR
11. Init (IPL) button starts the computer
 - a. Initializes the memory (Reading the content from the IPL.txt file)
 - b. PC is ready to be used (By clicking SS or RUN button)
12. If clicking console button, it will print all
13. If clicking SS button
 - a. The computer will run one instruction and the GUI will be updated
 - b. Continue to click the SS button to execute a single instruction
14. If clicking RUN button
 - a. The entire program will be executed. After finishing, the Halt light will be lighted
15. The Console button is to let the user see the content in the memory.

Note: sometimes the input window may show behind the GUI, click the GUI and the input window will display.