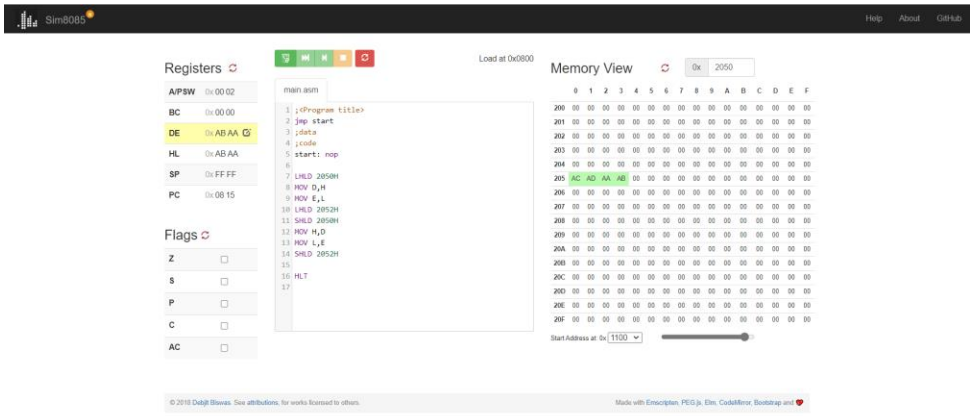
8085 Assembly Language Programs (Assignment -06)

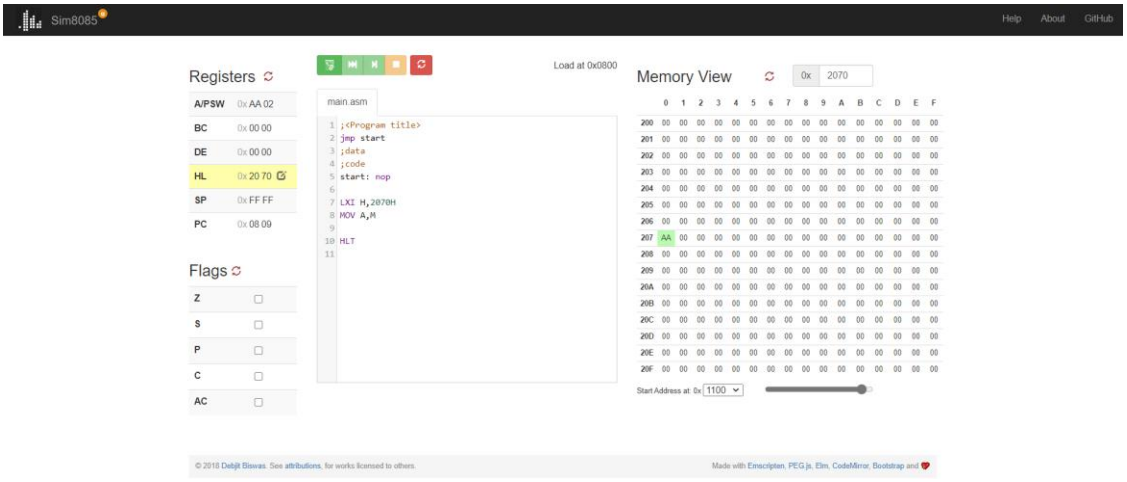
Design an 8085 Assembly Language Program for the following definitions:

A) Write an 8085 Assembly language program to interchange 16-bit data stored in memory locations 2050, 2051, 2052, and 2053 without XCHG instruction.

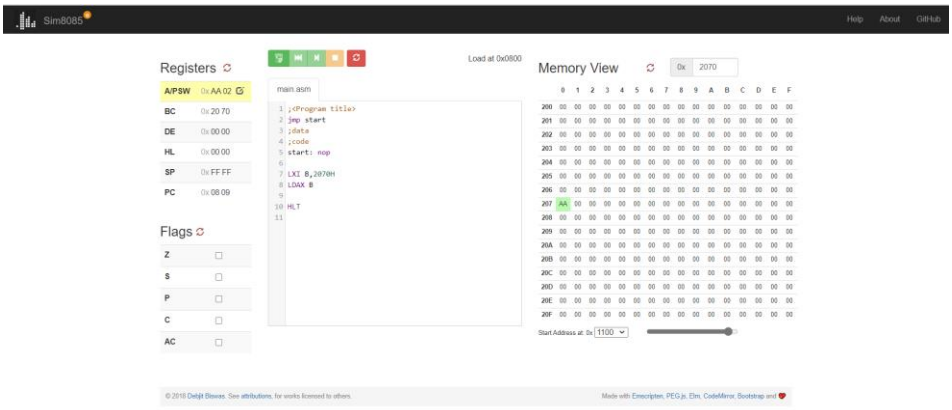


B) The memory location 2070H holds the data byte F2H.Write instructions to transfer the data byte to the accumulator using three different Opcode: MOV, LDAX, and LDA.

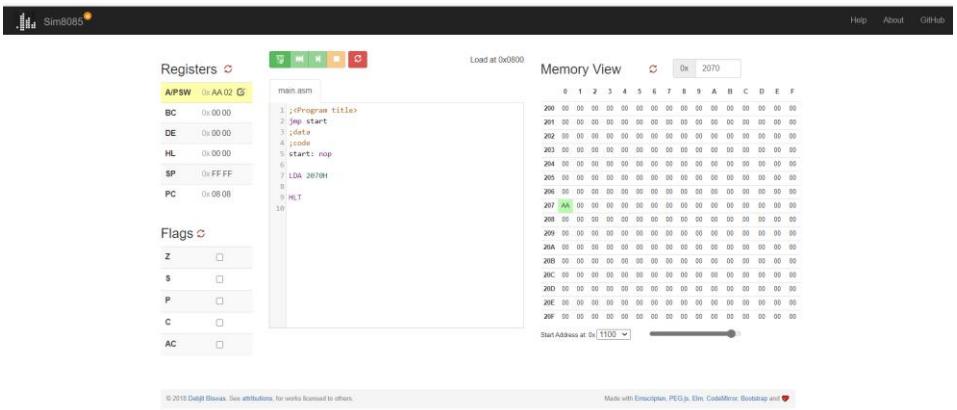
i. MOV:



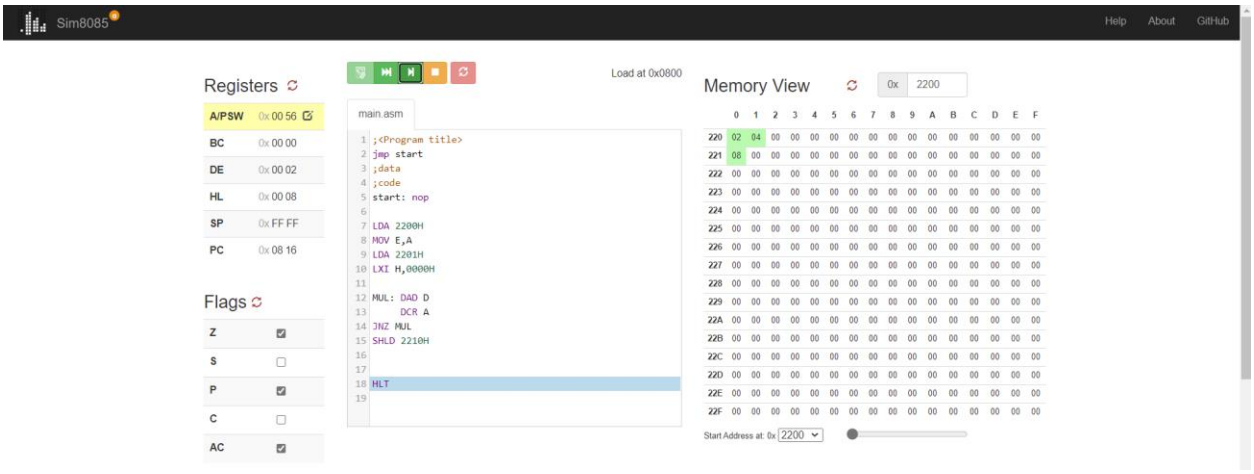
ii. LDAX:



iii. LDA:



C) Write assembly language program to do multiplication of two numbers. Specify the memory location of each and every instruction and also draw flowchart.



D) An array of twenty data bytes is stored on memory locations 2000H onwards. Write an 8085-assembly language program to count the number of zeros, odd numbers and even numbers and store them on memory locations 3000H, 3001H and 3002H, respectively.