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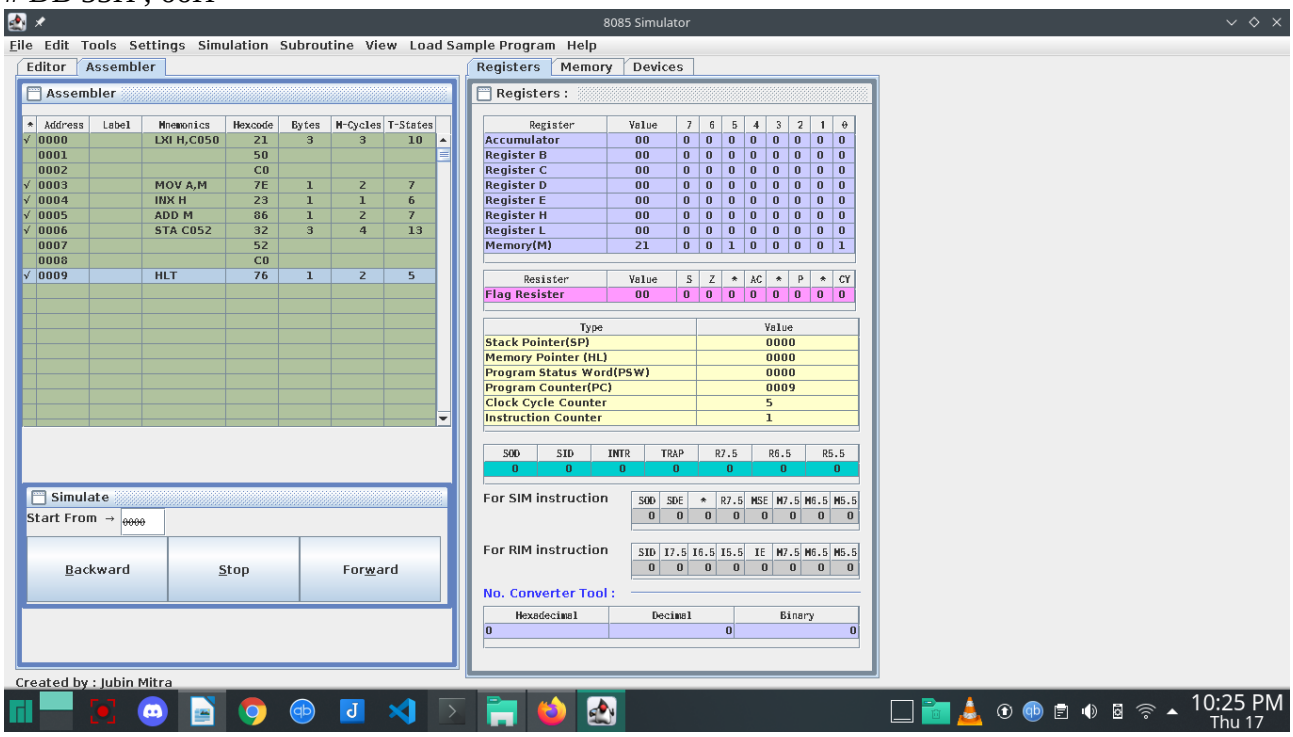
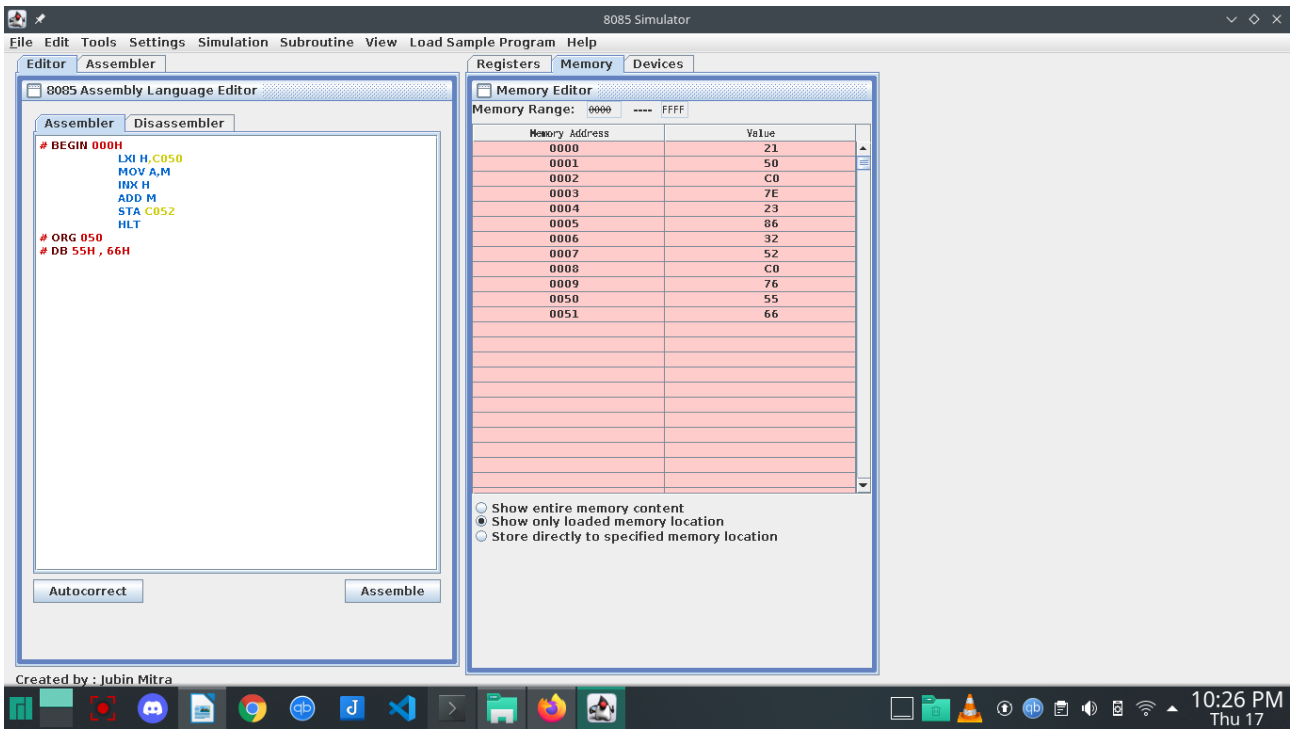
Batch-F6
Enroll No.-9918103237
COA Lab-7

Question 1:

(a)

```
# BEGIN 000H
        LXI H,C050
        MOV A,M
        INX H
        ADD M
        STA C052
        HLT
# ORG 050
# DB 55H , 66H
```





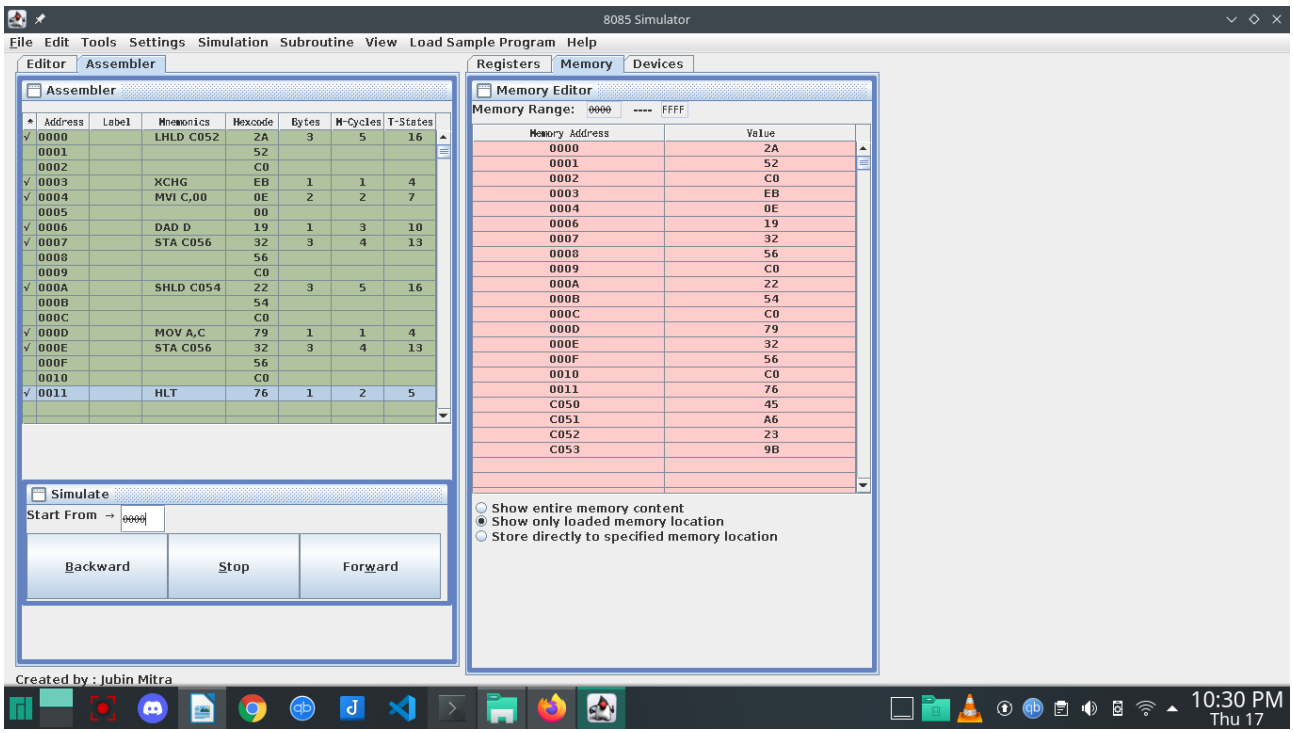
Question 1:

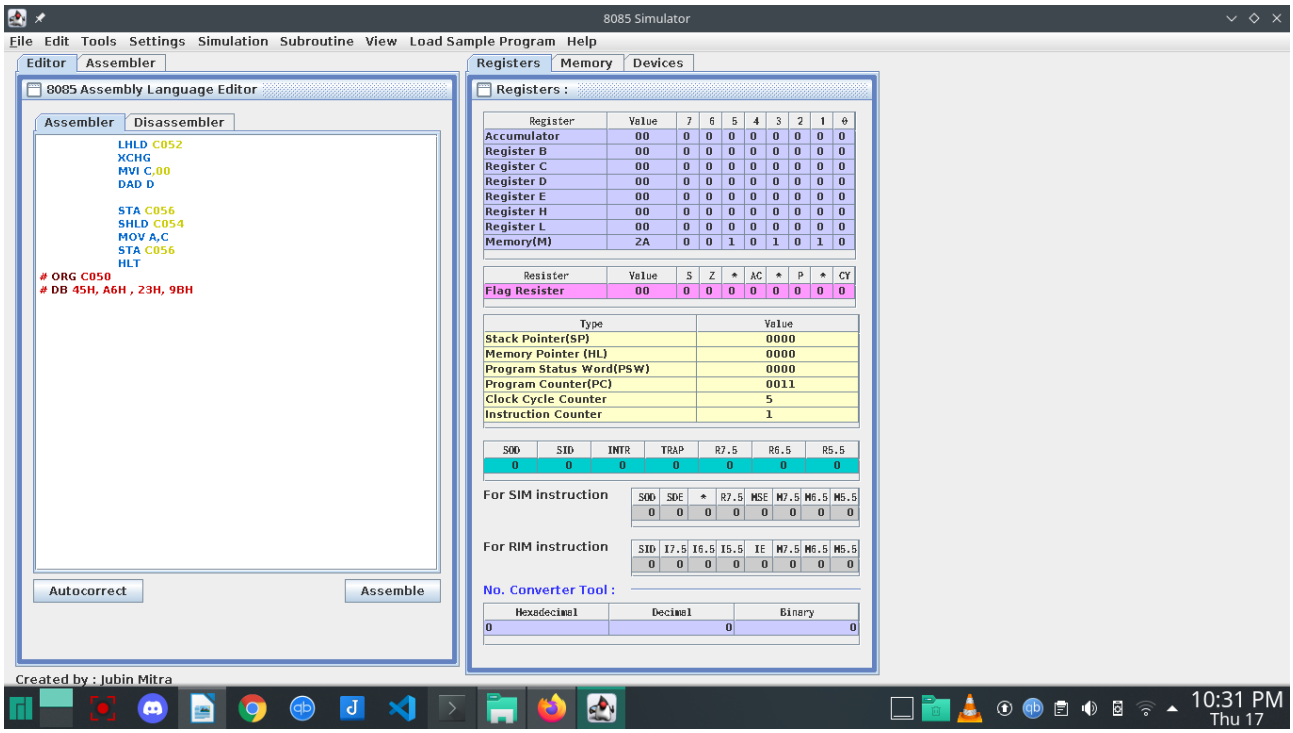
(b)

LHLD C052
XCHG
MVI C,00
DAD D

STA C056
SHLD C054
MOV A,C
STA C056
HLT

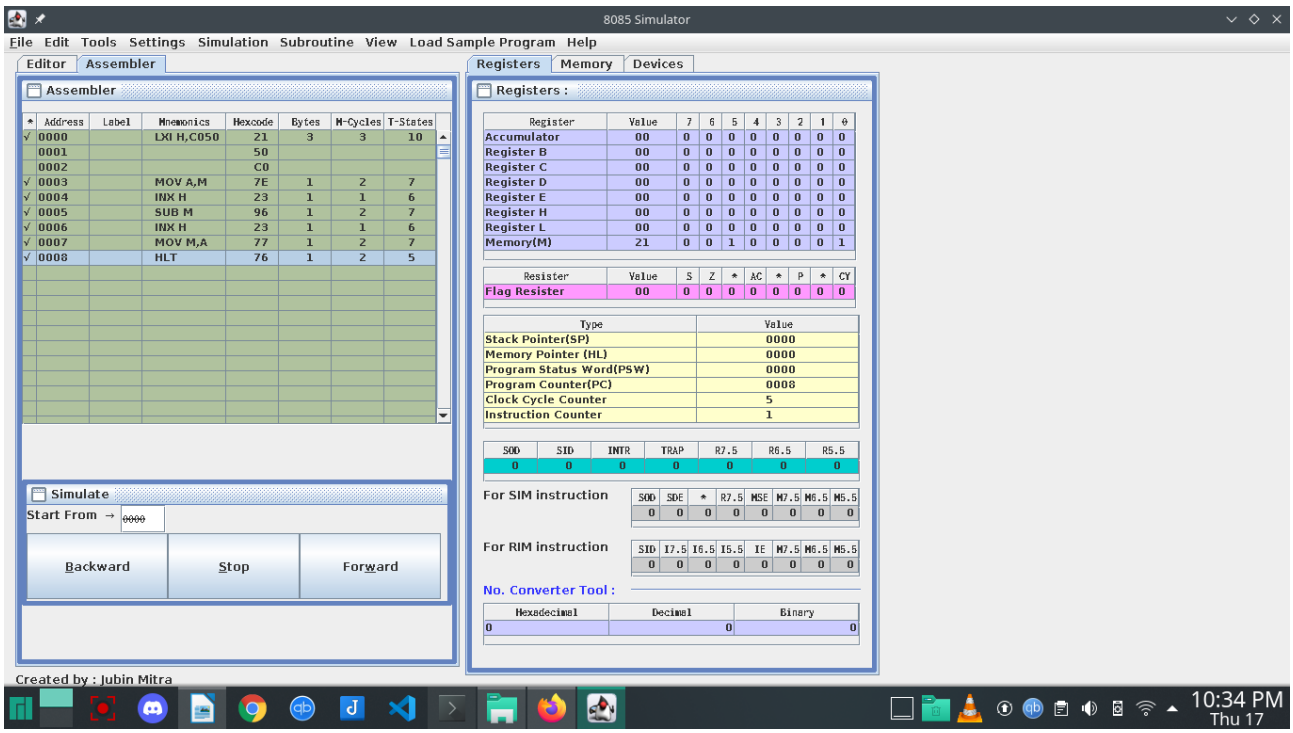
ORG C050
DB 45H, A6H , 23H, 9BH

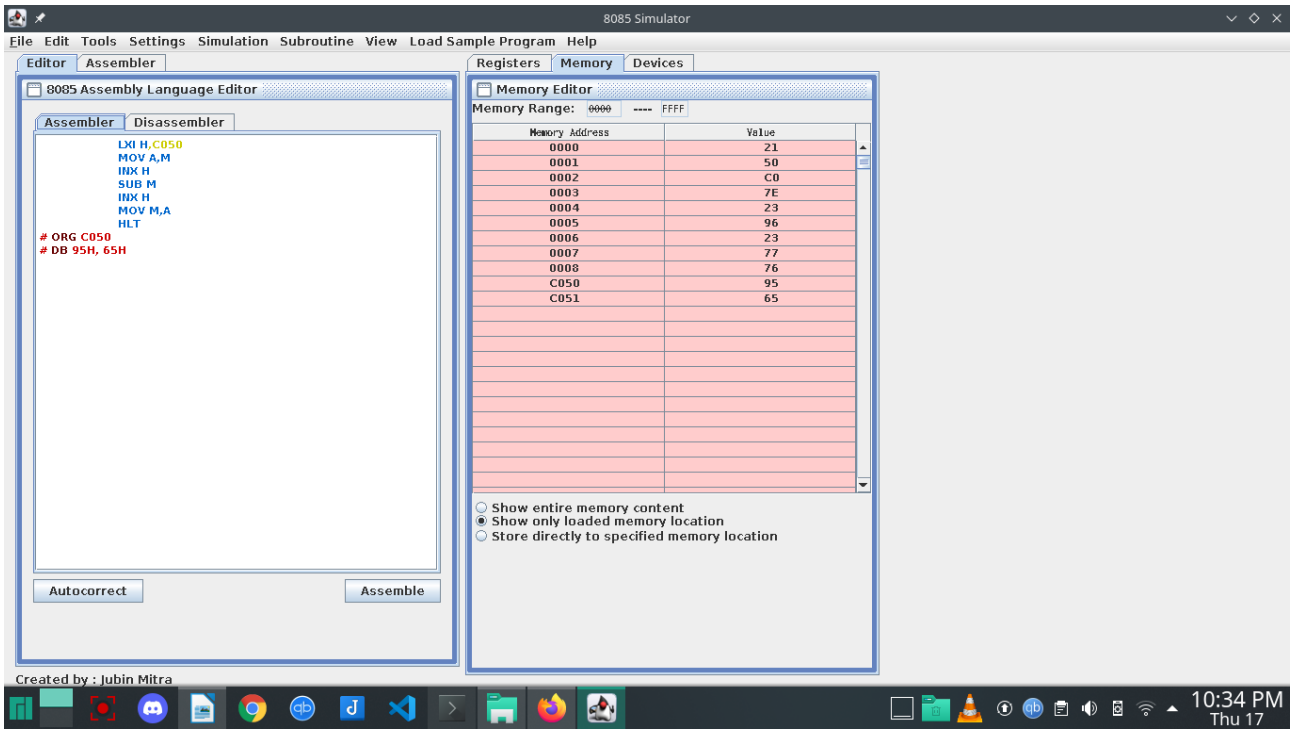




Question 1(c):

```
        LXI H,C050
        MOV A,M
        INX H
        SUB M
        INX H
        MOV M,A
        HLT
# ORG C050
# DB 95H, 65H
```



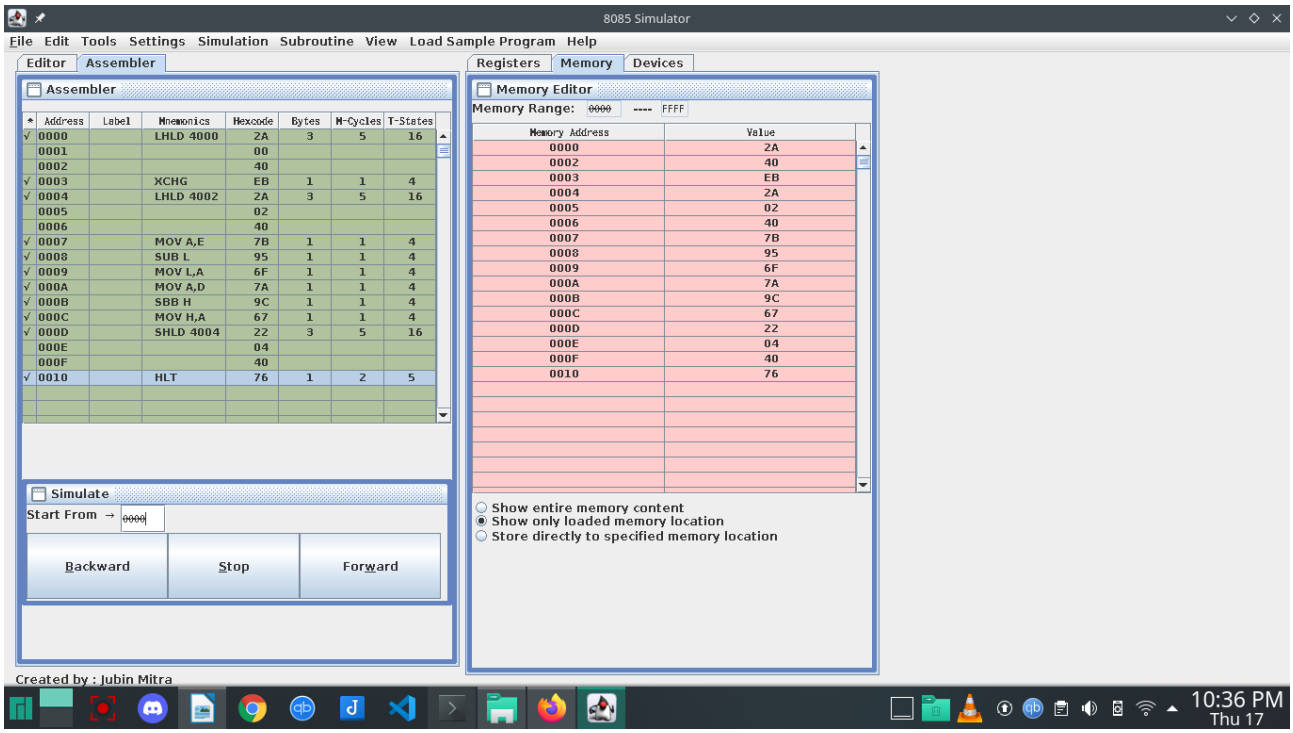


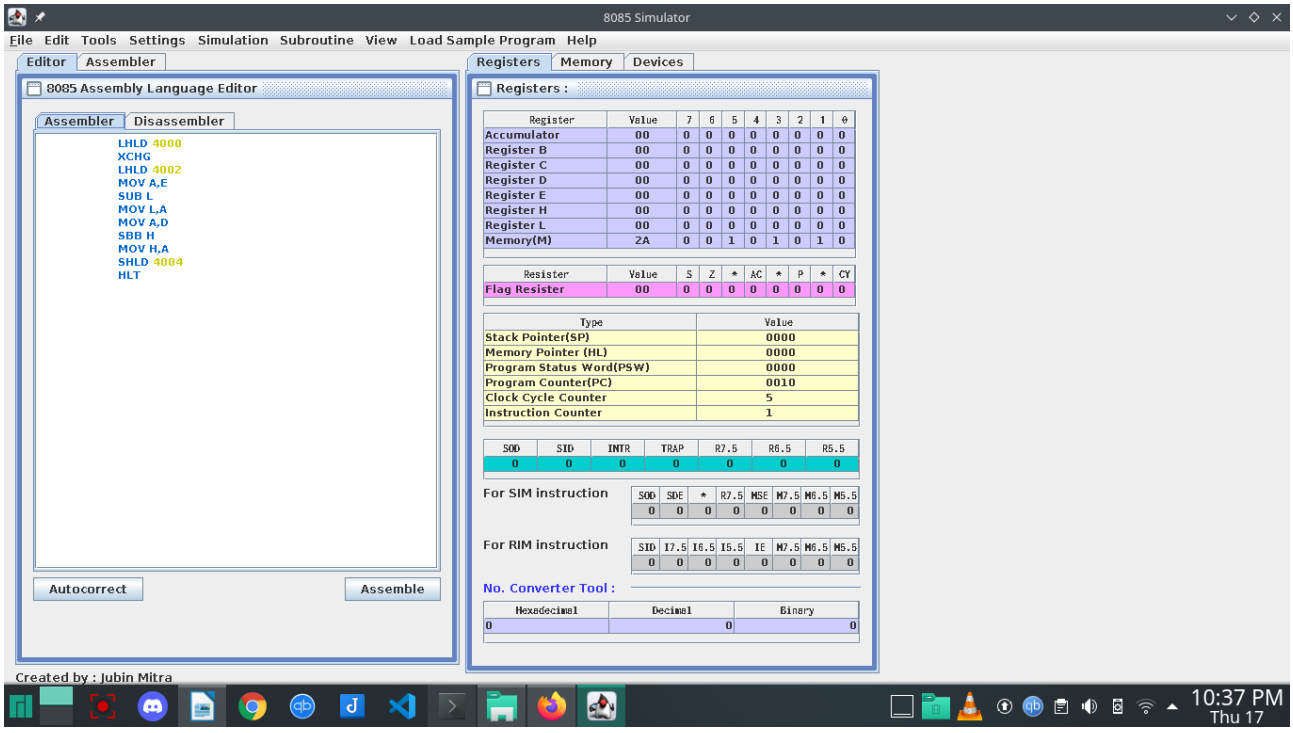
Question 1:

(d)

LHLD 4000
XCHG
LHLD 4002
MOV A,E
SUB L
MOV L,A
MOV A,D
SBB H

MOV H,A
SHLD 4004
HLT



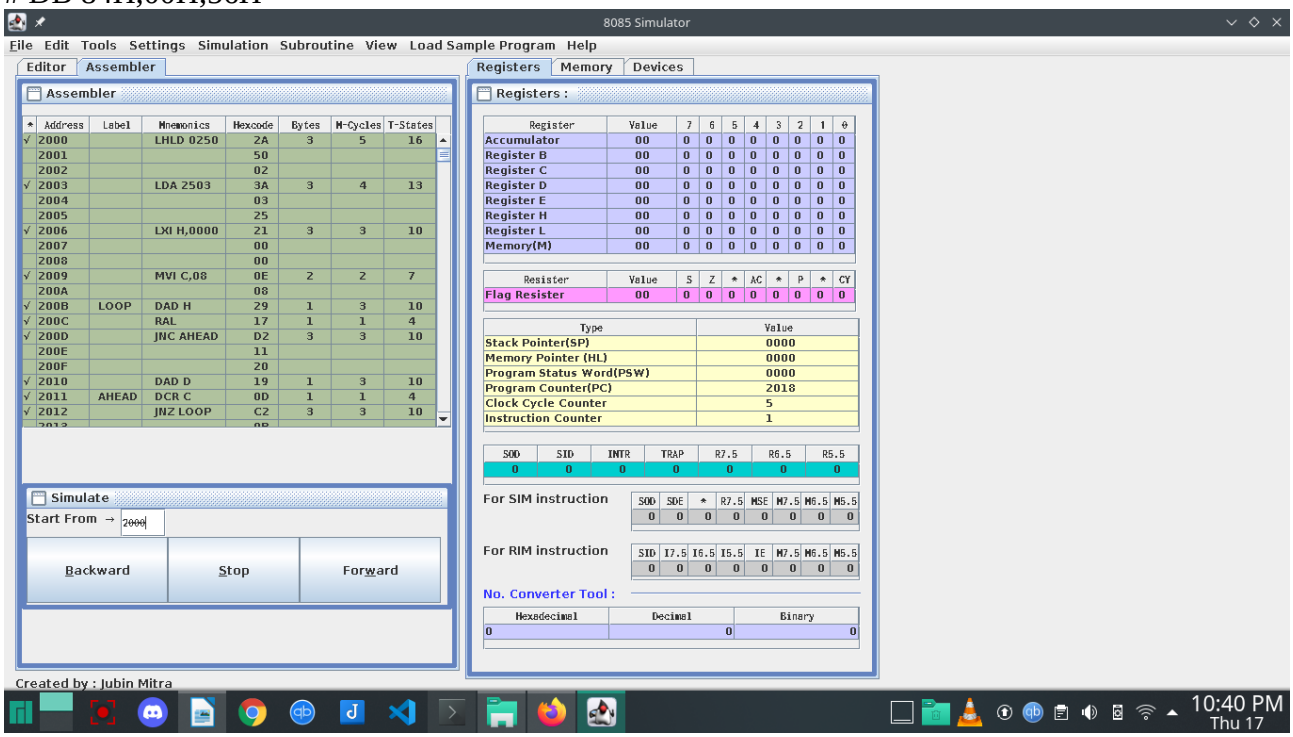


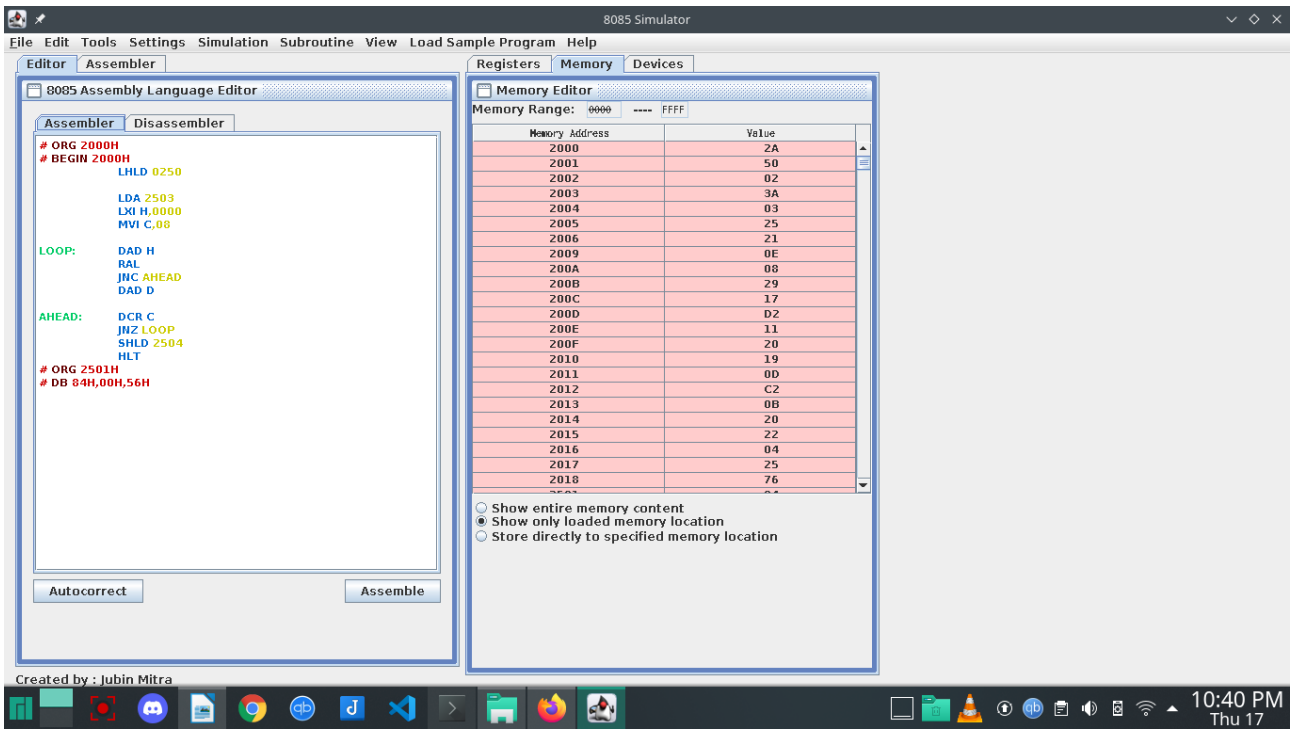
Question 2:

(a)

ORG 2000H
BEGIN 2000H
LHLD 0250

```
        LDA 2503
        LXI H,0000
        MVI C,08

LOOP:   DAD H
        RAL
        JNC AHEAD
        DAD D

AHEAD:      DCR C
        JNZ LOOP
        SHLD 2504
        HLT
# ORG 2501H
# DB 84H,00H,56H
```

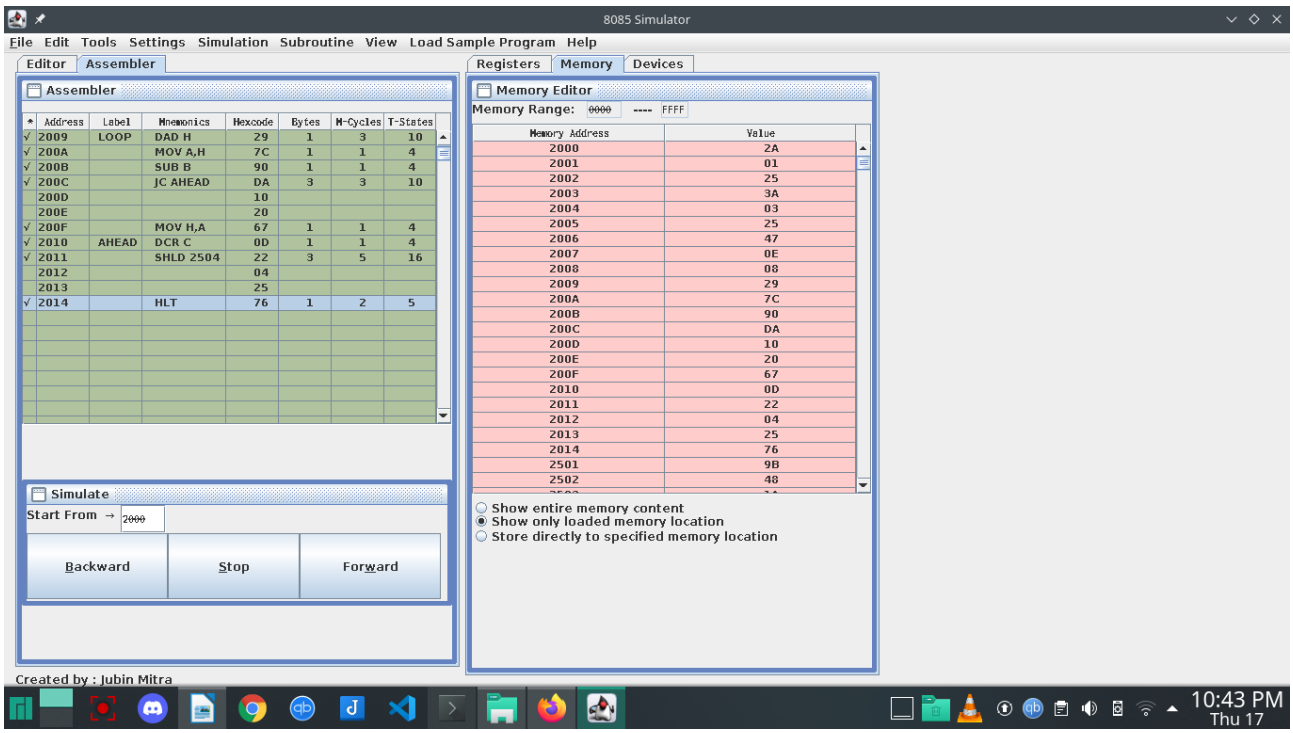


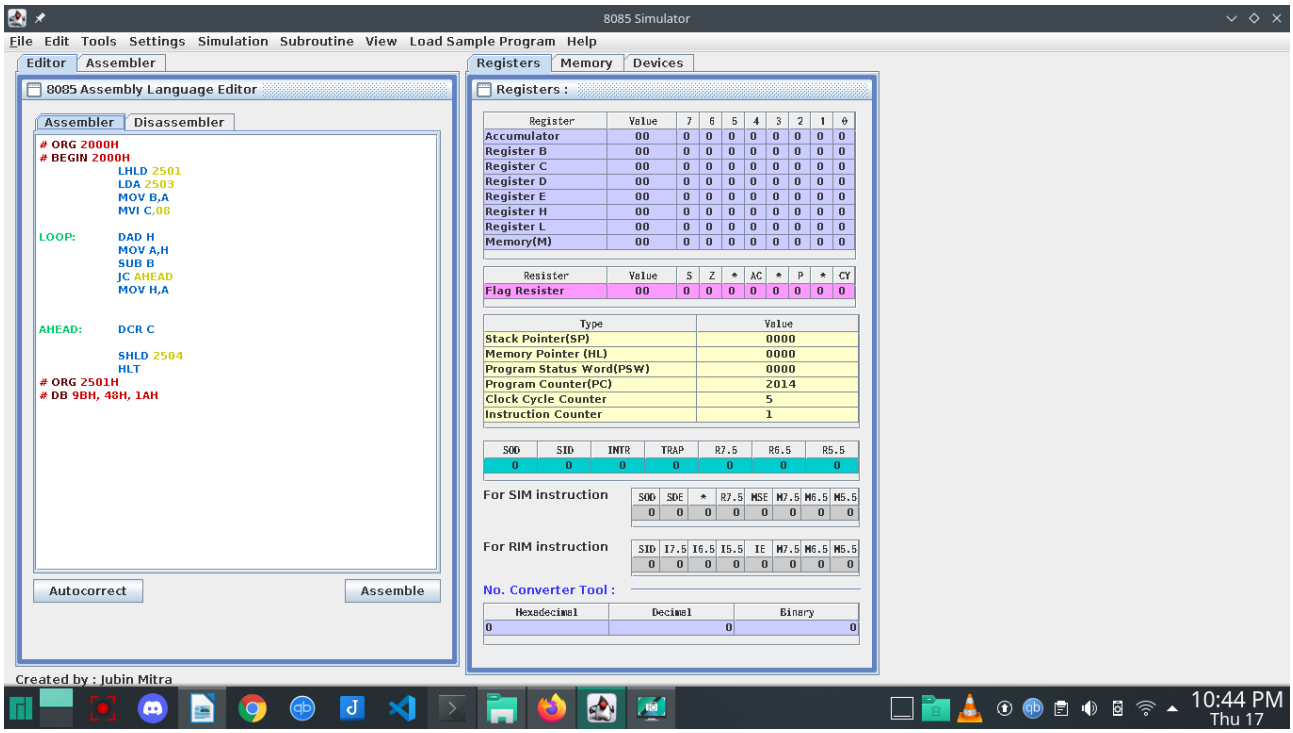


Question 2:

(b)

```
# ORG 2000H
# BEGIN 2000H
        LHLD 2501
        LDA 2503
        MOV B,A
        MVI C,08

LOOP:   DAD H
        MOV A,H
        SUB B
        JC AHEAD
        MOV H,A


AHEAD:      DCR C

        SHLD 2504
        HLT
# ORG 2501H
# DB 9BH, 48H, 1AH
```



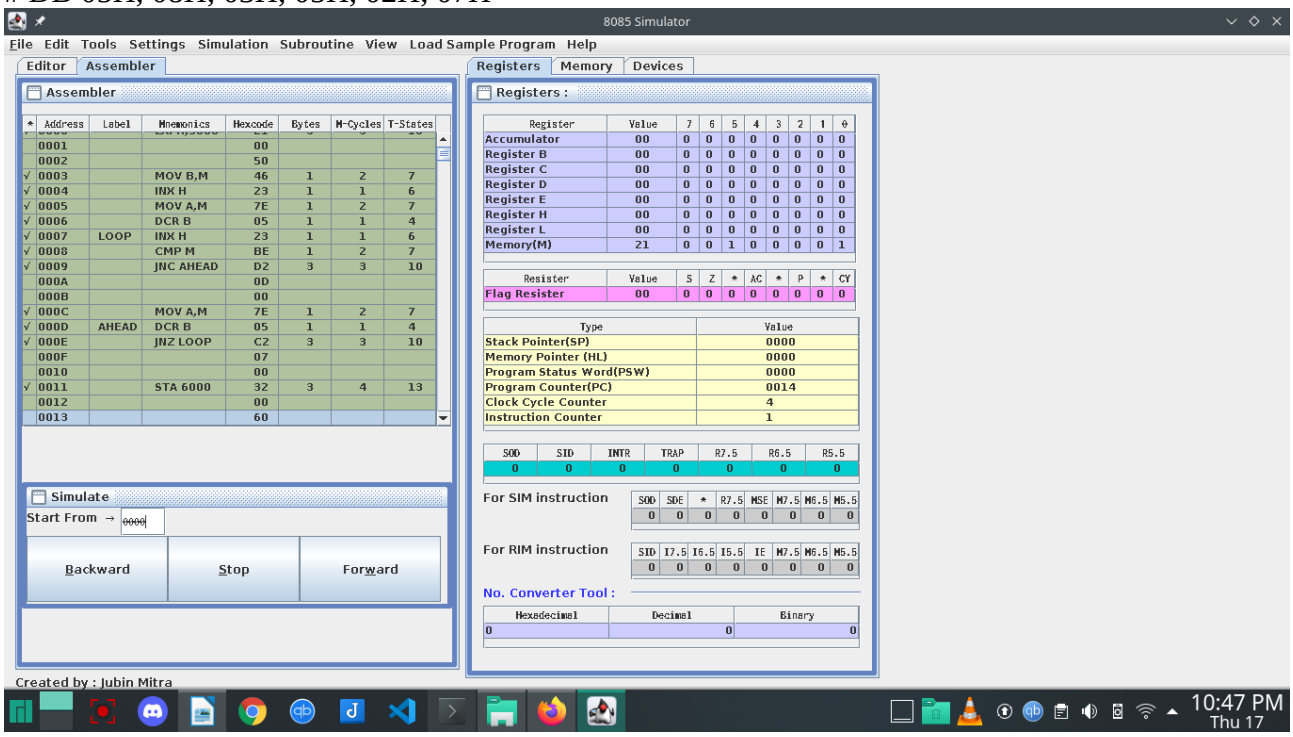


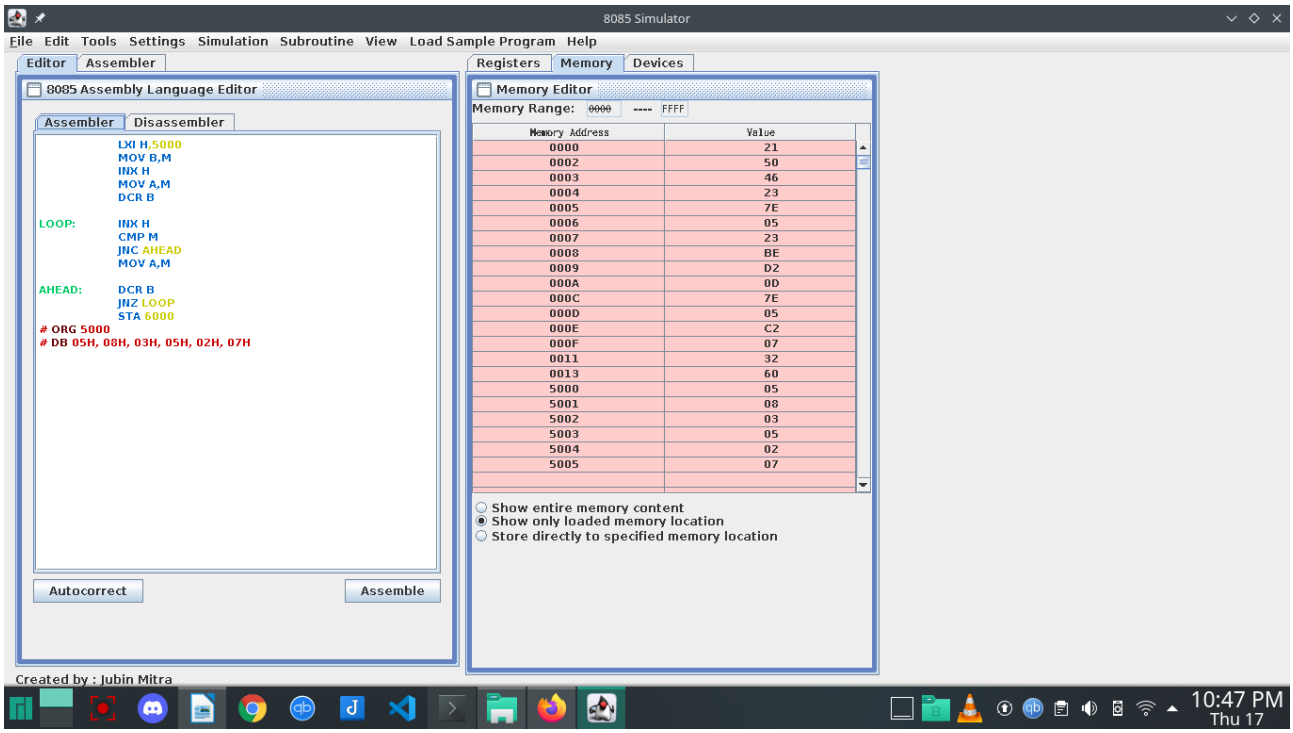
Question 3:

(a)

```
        LXI H,5000
        MOV B,M
        INX H
        MOV A,M
        DCR B

LOOP:   INX H
```

```
        CMP M
        JNC AHEAD
        MOV A,M

AHEAD:  DCR B
        JNZ LOOP
        STA 6000
# ORG 5000
# DB 05H, 08H, 03H, 05H, 02H, 07H
```

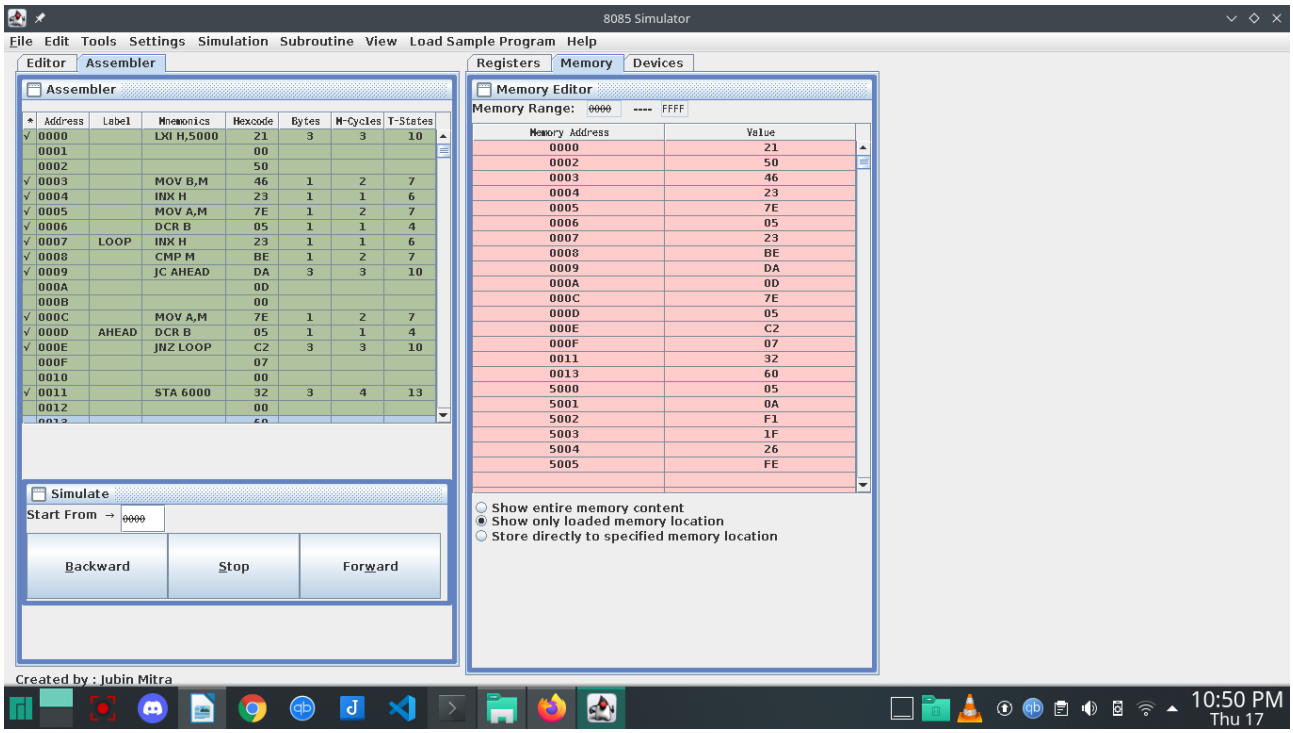


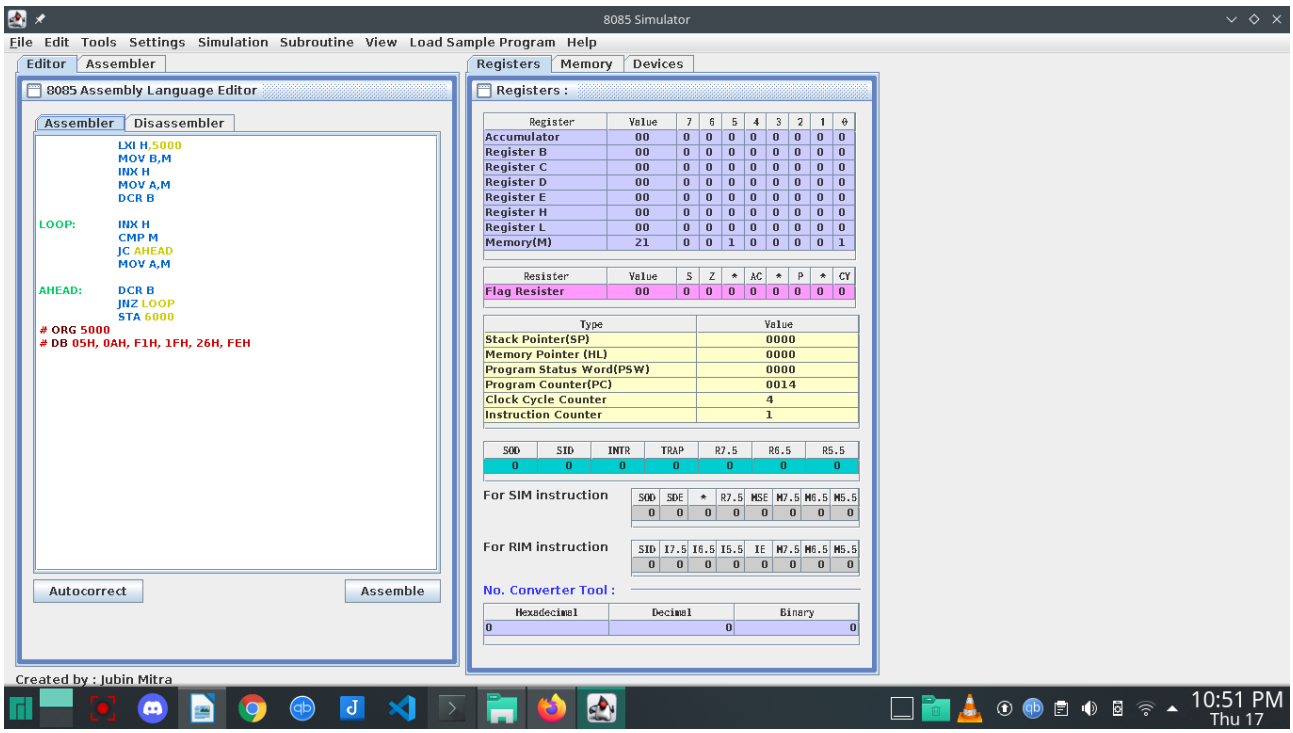


Question 3:

(b)

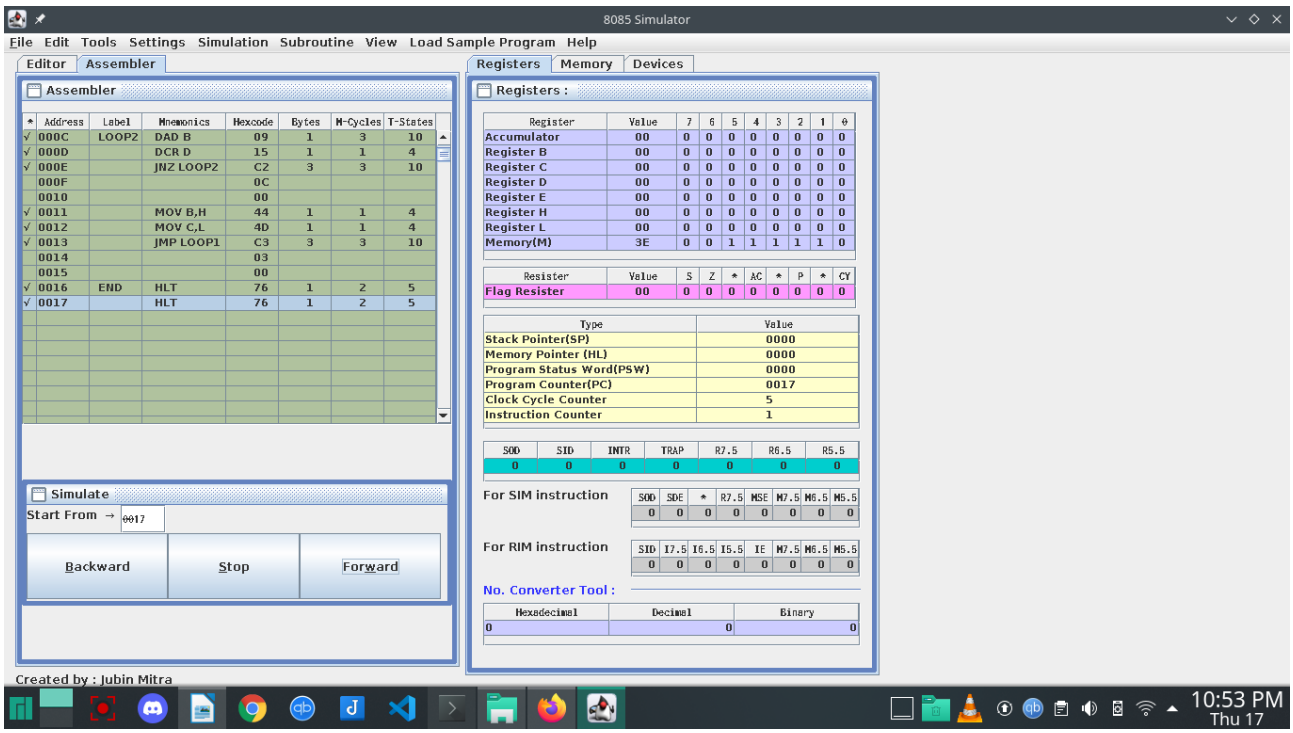
```
        LXI H,5000
        MOV B,M
        INX H
        MOV A,M
        DCR B

LOOP:   INX H
        CMP M
        JC AHEAD
        MOV A,M

AHEAD:      DCR B
        JNZ LOOP
        STA 6000
# ORG 5000
# DB 05H, 0AH, F1H, 1FH, 26H, FEH
```

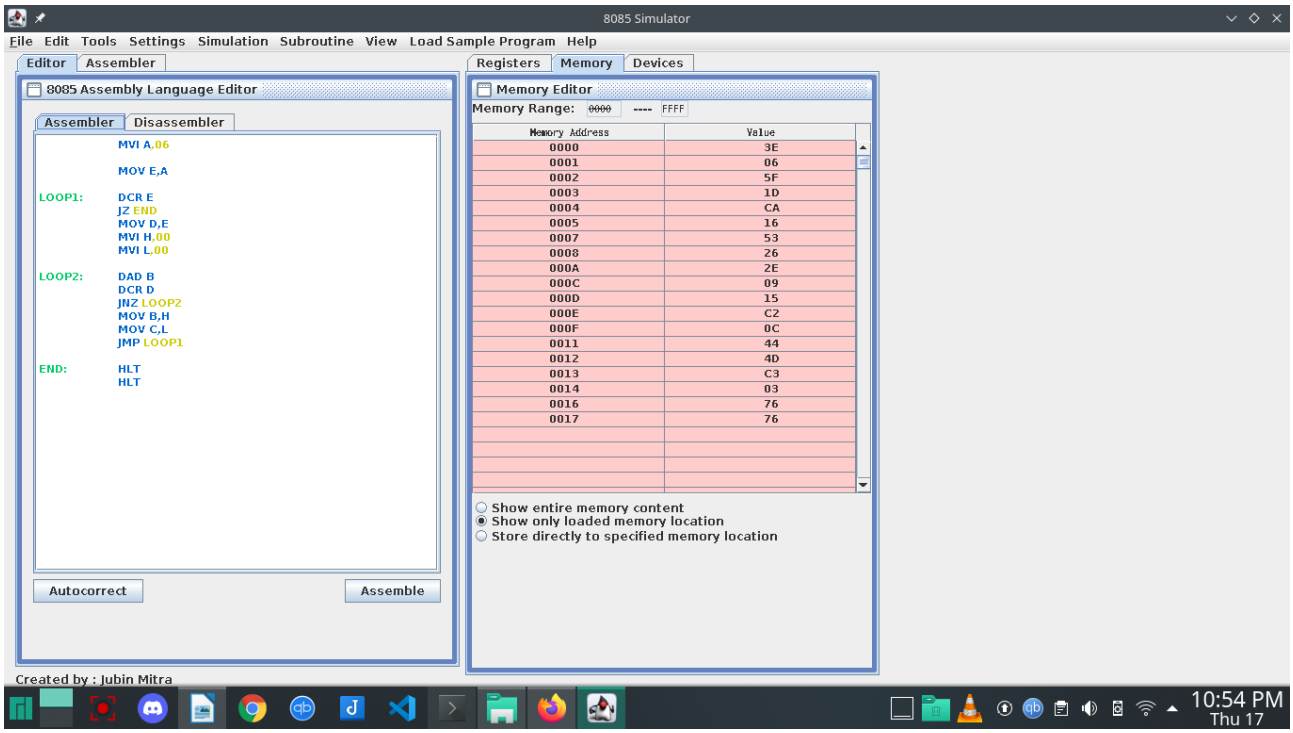




Question 4:

```
        MVI A,06

        MOV E,A

LOOP1:  DCR E
        JZ END
        MOV D,E
        MVI H,00
        MVI L,00

LOOP2:  DAD B
        DCR D
        JNZ LOOP2
        MOV B,H
        MOV C,L
        JMP LOOP1

END:    HLT
        HLT
```


8085 Simulator
File Edit Tools Settings Simulation Subroutine View Load Sample Program Help
Editor Assembler
Registers Memory Devices
Assembler
Registers :
Simulate
Start From → 0017
Backward
Stop
Forward
For SIM instruction
For RIM instruction
No. Converter Tool :
Created by : Jubin Mitra
10:53 PM
Thu 17


8085 Simulator
File Edit Tools Settings Simulation Subroutine View Load Sample Program Help
Editor Assembler
Registers Memory Devices
8085 Assembly Language Editor
Assembler Disassembler
MVI A,06
MOV E,A
LOOP1: DCR E
JZ END
MOV D,E
MVI H,00
MVI L,00
LOOP2: DAD B
DCR D
JNZ LOOP2
MOV B,H
MOV C,L
JMP LOOP1
END: HLT
HLT
Autocorrect
Assemble
Memory Editor
Memory Range: 0000 ---- FFFF
Show entire memory content
Show only loaded memory location
Store directly to specified memory location
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Thu 17