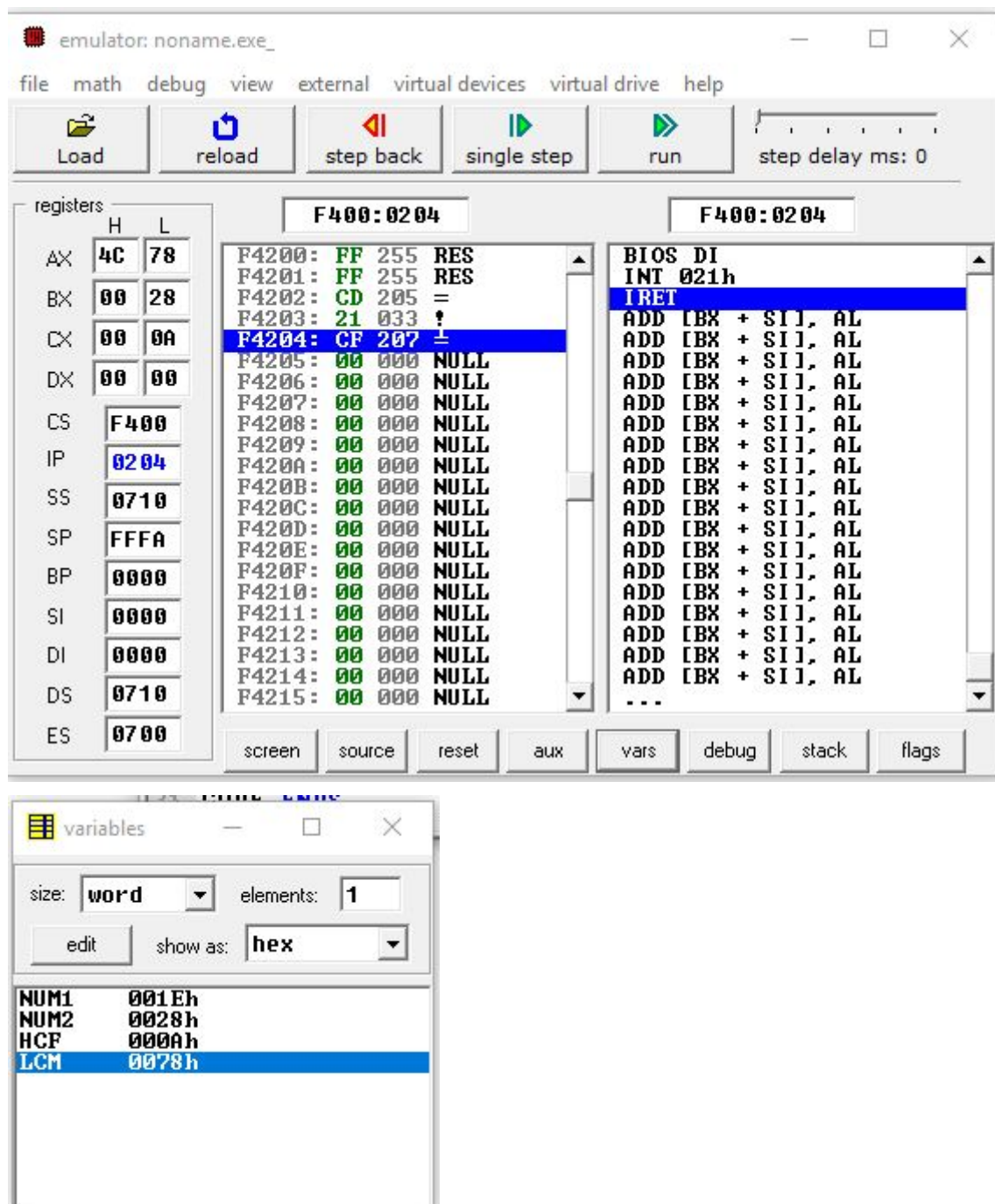# MICROPROCESSOR LAB

EXPERIMENT 6

GAIS AMEER

S6 CSE

ROLL 33

6. Find the LCM and GCD of two given numbers

Program

```
DATA SEGMENT
  NUM1 DW 30
  NUM2 DW 40
  HCF DW ?
  LCM DW ?
DATA ENDS
CODE SEGMENT
ASSUME DS:DATA CS:CODE
START:
  MOV AX,DATA
  MOV DS,AX
  MOV AX,NUM1
  MOV BX,NUM2
  L1:
  MOV DX,0
  MOV CX,BX
  DIV BX
  MOV BX,DX
  MOV AX,CX
  CMP BX,0
  JNE L1
  MOV HCF,AX
  MOV CX,AX
  MOV AX,NUM1
  MOV BX,NUM2
  MUL BX
  DIV CX
  MOV LCM,AX
  MOV AH,4CH
  INT 21H
CODE ENDS
END START
```

Output

Result

Executed program to find the LCM and GCD of two given numbers in emu8086 and obtained the outputs