MICROPROCESSOR LAB

EXERCISE 7

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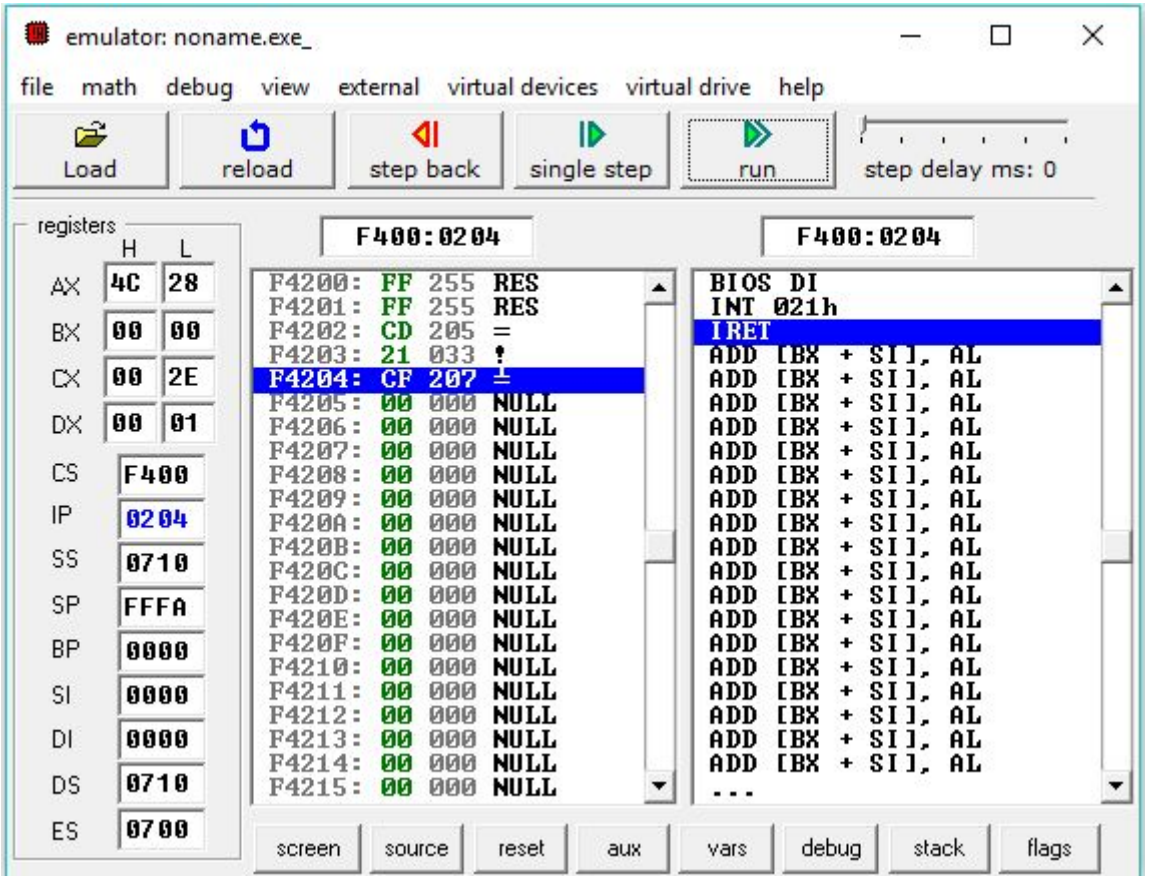
S6 CSE
ROLL 33

7. Bit manipulation to check whether the data is positive or negative

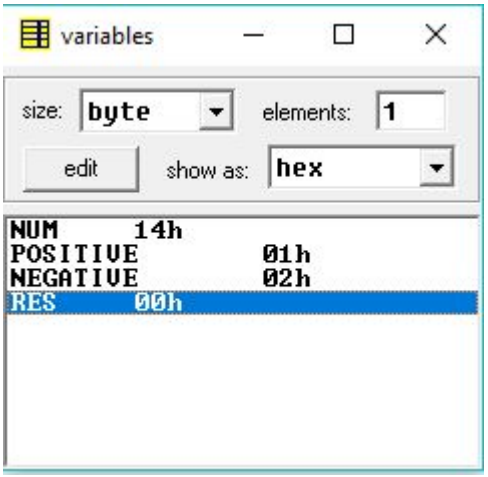
Program

```
DATA SEGMENT
  NUM DB 10
  POSITIVE DB 1H
  NEGATIVE DB 2H
  RES DB ?
DATA ENDS
CODE SEGMENT
ASSUME DS:DATA CS:CODE
START:
  MOV AX,DATA
  MOV DS,AX
  MOV AL,NUM
  ROL AL,01
  JC DN
  MOV DL,POSITIVE
  JMP EXIT
  DN: MOV DL,NEGATIVE
  EXIT:
  MOV RES,DL
  MOV AH,4CH
  INT 21H
CODE ENDS
END START
```

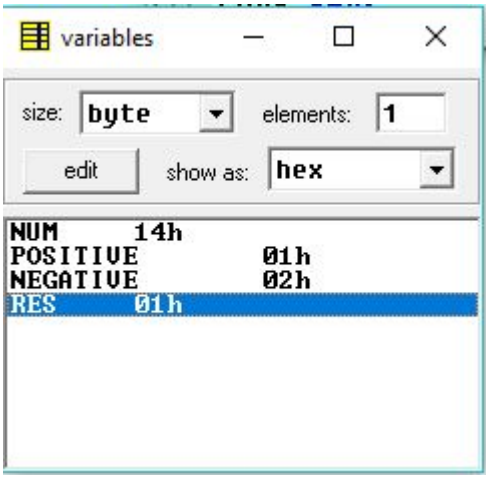
Output



Before running code



After running code



Result

Executed program for Bit manipulation to check whether the data is positive or negative in emu8086 and obtained the outputs