

MICROPROCESSOR LAB

EXPERIMENT 4

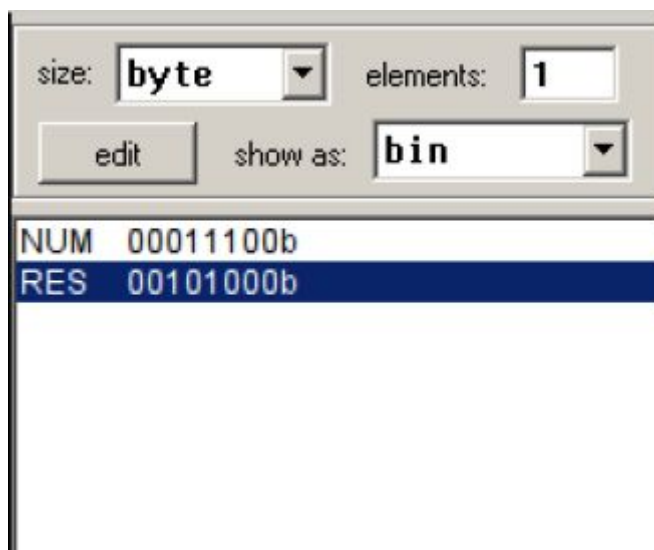
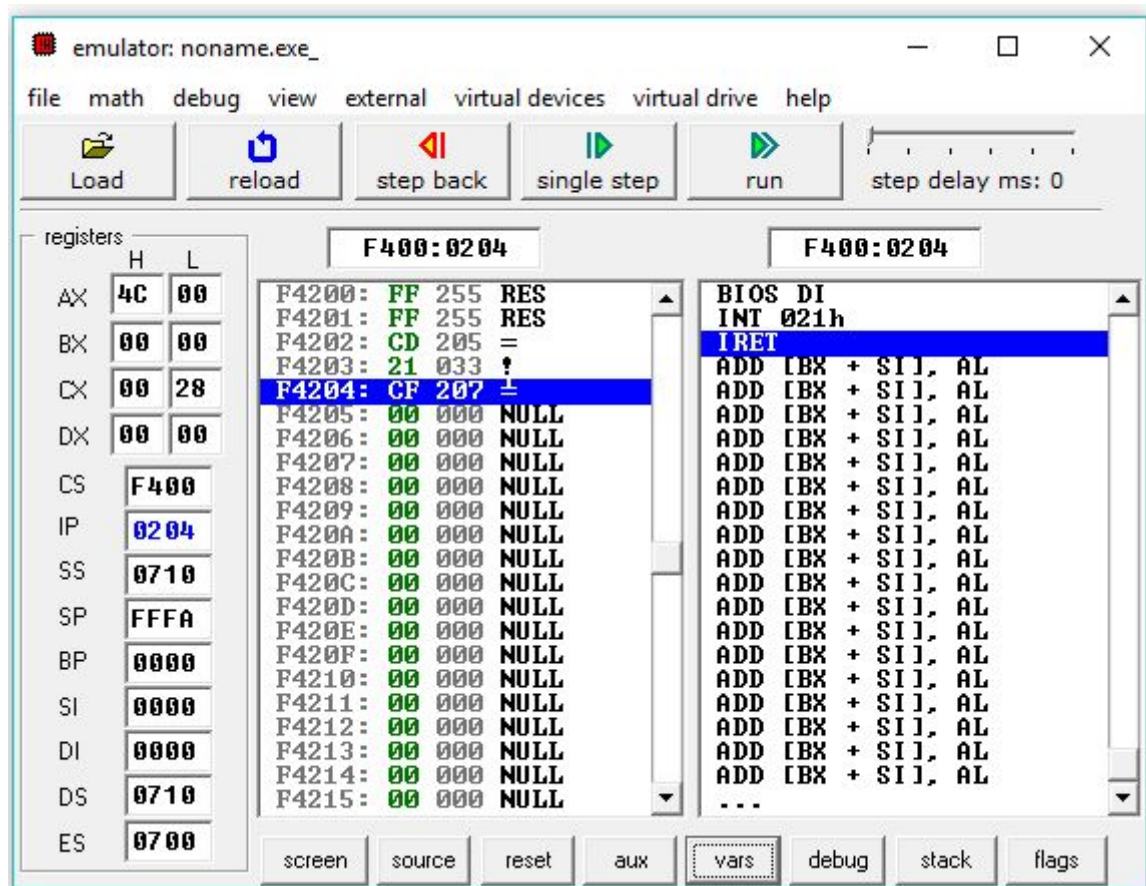
GAIS AMEER
S6 CSE
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4. Binary to BCD conversion

Program

```
DATA SEGMENT
    NUM DB 11100B
    RES DB ?
DATA ENDS
CODE SEGMENT
ASSUME CS:CODE,DS:DATA
START:
    MOV AX,DATA
    MOV DS,AX
    MOV BL,NUM
    MOV AX,0H
    MOV CX,0H
L1:
    CMP BL,0H
    JZ LAST
    DEC BL
    MOV AL,CL
    ADD AL,01H
    DAA
    MOV CL,AL
    MOV AL,CH
    ADC AL,00H
    DAA
    MOV CH,AL
    JMP L1
LAST:
    MOV RES,CL
    MOV AH,4CH
    INT 21H
CODE ENDS
END START
```

Output



Result

Implemented program for Binary to BCD conversion in emu8086 and obtained required outputs.