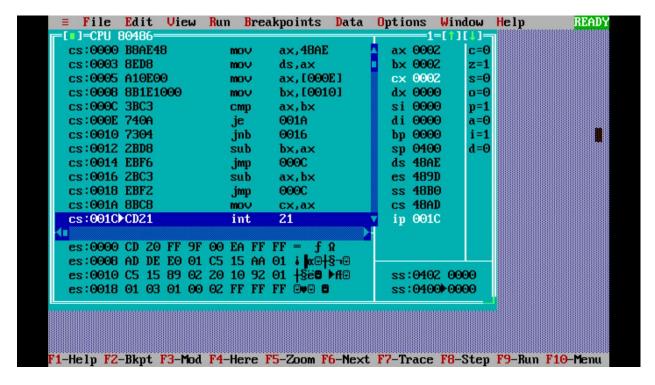
EXPERIMENT 6

<u>Aim:</u> Program for GCD and LCM using Procedures GCD: Code: .MODEL SMALL .STACK .DATA NUM1 DW 0002h NUM2 DW 0008h .CODE MOV AX, @DATA MOV DS, AX MOV AX, NUM1 MOV BX, NUM2 CALL GCD PROC GCD MOV CX,AX MOV DX,BX BACK: CMP CX, DX JE RESULT JNC AHEAD SUB DX, CX JMP BACK AHEAD: SUB CX, DX JMP BACK RESULT: MOV CX, CX **RET ENDP GCD** MOV AH,4CH INT 21h **END**

Output:



LCM:

Code:

```
.MODEL SMALL
.STACK
.DATA
NUM1 DW 0004h
NUM2 DW 0006h
LCM DW 01 DUP (?)
.CODE
MOV AX, @DATA
MOV DS, AX
MOV AX, NUM1
MOV BX, NUM2
CALL L
PROC L
   MOV CX, AX
```

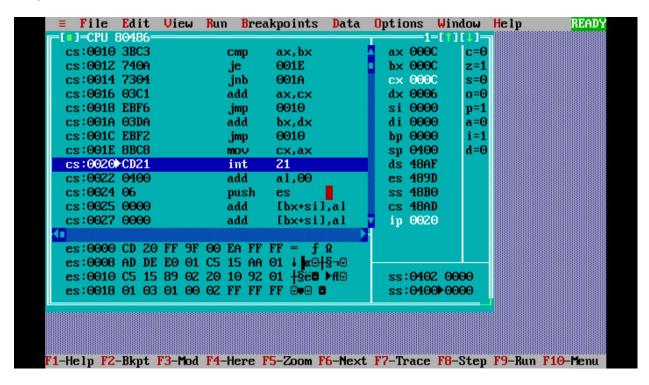
MOV DX, BX BACK: CMP AX, BX JE RESULT JNC AHEAD ADD AX, CX JMP BACK AHEAD: ADD BX, DX JMP BACK

RESULT: MOV CX, AX

ENDP L

MOV AH,4CH INT 21h END

Output:



Conclusion: Thus, the program is executed successfully