Lab Report

<u>Lab – 03</u>

Course No: 3110

Course Name: Sessional Based on 3109 (Microprocessors and Assembly

Language)

Submitted To:

Sadia Zaman Mishu

Assistant Professor,

Department of CSE, RUET

Submitted By:

Anika Tabassum Era

Roll: 1703176

Section: C

Experiment No: 03

MOV AH,9

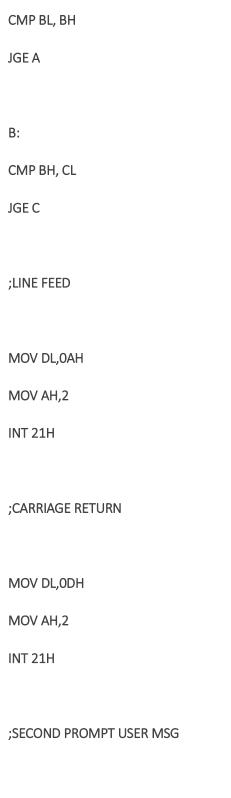
Experiment Name: Write an assembly language program to find the largest number among 3 decimal numbers which are less than 10.

Code: .MODEL SMALL .STACK 100H .DATA MSG1 DB 0AH,0DH, 'Enter three numbers: \$' MSG2 DB 0AH,0DH, 'The largest number: \$' .CODE MAIN PROC ;INITIALIZING PROMPT USER MOV AX, @DATA MOV DS, AX ; FIRST PROMPT USER MSG LEA DX, MSG1

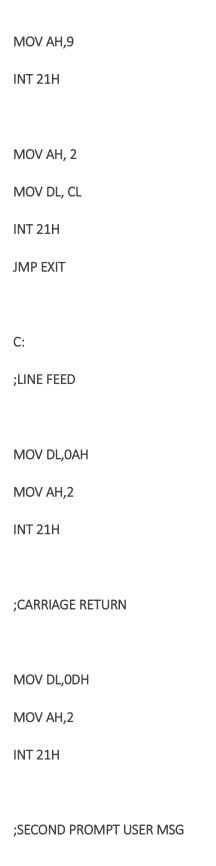
MOV AH, 1 INT 21H MOV BL, AL MOV DL, ' ' MOV AH, 2 INT 21H MOV AH, 1 INT 21H MOV BH, AL MOV DL, ' ' MOV AH, 2 INT 21H MOV AH, 1 INT 21H MOV CL, AL

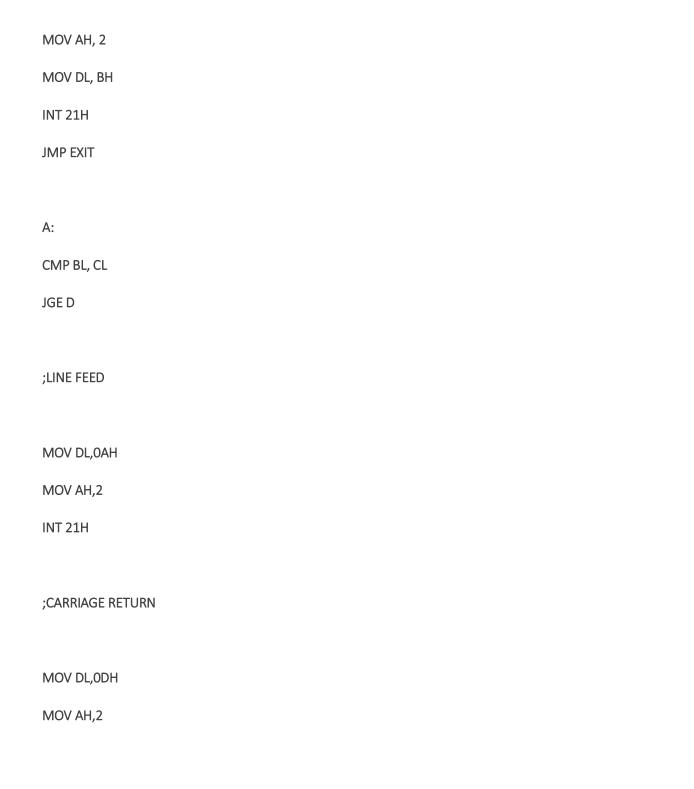
INT 21H

;INPUT



LEA DX, MSG2





LEA DX, MSG2

MOV AH,9

INT 21H

INT 21H
;SECOND PROMPT USER MSG
LEA DX, MSG2
MOV AH,9
INT 21H
MOV AH, 2
MOV DL, CL
INT 21H
JMP EXIT
D:
;LINE FEED
MOV DL,0AH
MOV AH,2
INT 21H

;CARRIAGE RETURN

MOV DL,0DH
MOV AH,2
INT 21H
;SECOND PROMPT USER MSG
LEA DX, MSG2
MOV AH,9
INT 21H
MOV AH, 2
MOV DL, BL
INT 21H
EXIT:
MOV AH, 4CH
INT 21H
MAIN ENDP
END MAIN

Output:

```
Enter three numbers: 7 4 2
The largest number: 7
```

<u>Discussion:</u> The specified program needs 3 decimal digits to input. And printing extra space while taking the input was implemented. Then the "cmp" and "jge" was used to do the comparison and finally the output was found to be accurate.