



Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE2214
Course Title : Assembly Language Programming Sessional
Assignment No : 04

Date of Performance : 22/12/21
Date of Submission : 29/12/21

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Question No: 01

Question: Write a Program to input an uppercase letter and display its corresponding lowercase letter.

Answer:

- MODEL SMALL

- STACK 100H

- DATA

MSG1 DB 'INPUT THE UPPERCASE LETTER:\$'

MSG2 DB 'THE LOWERCASE LETTER IS:\$'

RESULT DB?

- CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

LEA DX, MSG1

MOV AH, 9

INT 21H

MOV AH, 1
INT 21H
ADD AL, 20H
MOV RESULT, AL

MOV AH, 2
MOV DL, 0DH
INT 21H
MOV DL, 0AH
INT 21H

LEA DX, MSG2
MOV AH, 9
INT 21H

MOV DL, RESULT
MOV AH, 2
INT 21H

MOV AH, 4CH
INT 21H
END MAIN

Question No! 02

Question: Write a Program to read two decimal digits whose sum is less than 10 and display them and their sum in the next line with an appropriate message.

Answer:

- MODEL SMALL

- STACK 100H

- DATA

MSG1 DB 'INPUT A NUMBER: \$'

MSG2 DB 'INPUT ANOTHER NUMBER: \$'

MSG3 DB 'THE SUM IS: \$'

- CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

LEA DX, MSG1

MOV AH, 9

INT 21H

MOV AH,1
INT 21H
MOV BL,AL
SUB BL,30H

4
MOV AH,2
MOV DL,0DH
INT 21H
MOV DL,0AH
INT 21H

LEA DX,MSG2
MOV AH,9
INT 21H
MOV AH,1
INT 21H
MOV CL,AL
SUB CL,30H
ADD BL,CL

MOV AH,2
MOV DL,0DH
INT 21H
MOV DL,0AH
INT 21H

LEAD DX, MSG3

MOV AH, 9

INT 21H

ADD BL, 30H

MOV DL, BL

MOV AH, 2

INT 21H

MOV AH, 4CH

INT 21H

END MAIN