

Ahsanullah University of Science & Technology Department of Computer Science & Engineering

Course No: CSE2214

Course Title: Assembly Language Programming Sessional

Assignment No: 04

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Section : B

Question No: 01

Question: Write a program to input an uppercase letterz

and display its corresponding lowercase letters.

Answere:

- . MODEL SMALL
- . STACK 100H
- . DATA

CR EQU ODH

LF EQU OAH

MSG1 DB 'ENTER A UPPERCASE LETTER: \$'

MSG2 DB ODH, GAH, 'IN LOWERCASE IT IS:'

CHAR DB ?, '\$'

. CODE

MAIN PROC

; initialize DS

MOV AX, @DATA

MOV DS, AX

; print userz prompt

LEA DX, MSG1

MOV AH, 9

; input a choracter and convert to lowercase

MOV AH, J.

INT 21H

ADD AL, 20H

MOV CHAR, AL

; display on the next line

LEA DX, MSG2

MOV AH, 9

INT 21H

; DOS Exit

MOV AH, 4CH

INT 21H

MAIN ENDP

END MAIN

Question No: 02

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

Answerz:

- MODEL SMALL
- . STACK 100H
- . DATA
- A DB 'ENTER FIRST NUMBER: \$'
- DB 'ENTER SECOND NUMBER: \$'
- C DB 'THE SUM IS: \$'

MAIN PROC ; initialize DS

MOV AX, @ DATA

MOV DS, AX

; First Message

MOV AH, 9

LEA DX, A

; NEW LINE

MOV AH, 2

MOV DL, OAH

INT 21H

MOV DL, ODH

INT 21H

; First Input

MOV AH, 1

INT 21H

MOV BL, AL

; NEW LINE

MOV AH, 2

MOV DL, OAH

INT 21H

MOV DL, OPH

INT 21H

; second Message

MOV AH, 9

LEA DX, B

; New Line

MOV AH, 2

MOV DL, OAH

INT 21H

MOV DL, ODH

INT 21H

; second input

MOV AH, 1

INT 21H

MOV BH, AL

; New Line

mov AH, 2

MOV DL, OAH

INT 21H

MOV DL, ODH

INT 21H

; Third Message

MOV AH, 9

LEA DX, C

; New Line

MOV AH, 2

MOV DL, OAH

INT 21H

MOV DL, ODH

INT 21H

; calculation and Display

ADD BL, BH

SUB BL, 48

MOV DL, BL

INT 21H

; Return

MOV AH, ACH

INT 21H

MAIN ENDP

END MAIN