AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY



Department of Computer Science and Engineering

Program: BSc in Computer Science and Engineering

Course Code: CSE 2214

Assignment No: 01

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Submitted by,

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Lab Section: B1

1. Write a program to input an uppercase letter and display its corresponding lowercase letter.

Ans:

```
.MODEL SMALL
.STACK 100H
.DATA
 MSG1 DB 'ENTER AN UPPERCASE LETTER:$'
 MSG2 DB 0DH,0AH,'IN LOWERCASE IT IS:$'
 CHAR 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 CHAR, AL
 LEA DX, MSG2 ;
 MOV AH, 9
 INT 21H
 LEA DX, CHAR ;
 MOV AH, 9
 INT 21H
 MOV AX, 4C00H ;
 INT 21H
MAIN ENDP
END MAIN
```

2. 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 appropriate message.

Ans:

.MODEL SMALL **.STACK 100H** .DATA **MSG1 DB 'ENTER FIRST DIGIT:\$'** MSG2 DB 0DH,0AH,'ENTER SECOND DIGIT:\$' MSG3 DB 0DH,0AH,'THE DIGITS ARE:\$' MSG4 DB 0DH,0AH,'THEIR SUM IS:\$' DIG1 DB ?,'\$' DIG2 DB ?,'\$' **SUM DB ?,'\$'** .CODE **MAIN PROC** MOV AX, @DATA MOV DS, AX LEA DX, MSG1 MOV AH, 9 **INT 21H** MOV AH, 1 **INT 21H MOV DIG1, AL** LEA DX, MSG2 MOV AH, 9 **INT 21H** MOV AH, 1 **INT 21H** MOV DIG2, AL MOV AL, DIG1 **SUB AL, '0'** MOV BL, DIG2 **SUB BL, '0'**

ADD AL, BL ADD AL, '0' MOV SUM, AL

LEA DX, MSG3 MOV AH, 9 INT 21H

LEA DX, DIG1 MOV AH, 9 INT 21H

LEA DX, DIG2 MOV AH, 9 INT 21H

LEA DX, MSG4 MOV AH, 9 INT 21H

LEA DX, SUM MOV AH, 9 INT 21H

MOV AX, 4C00H INT 21H MAIN ENDP END MAIN