**AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**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.**

**Answer:**

**.model small**

**.stack 100h**

**.data**

**input db 'Enter an uppercase letter : $'**

**output db 'Corresponding lowercase letter : $'**

**char db ?**

**.code**

**main proc**

**mov ax,@data**

**mov ds,ax**

**lea dx,input**

**mov ah,9**

**int 21h**

**mov ah,1**

**int 21h**

**mov char,al**

**mov ah,2**

**mov dl,13**

**int 21h**

**mov dl,10**

**int 21h**

**lea dx,output**

**mov ah,9**

**int 21h**

**add char,32**

**mov ah,2**

**mov dl,char**

**int 21h**

**mov ah,4ch**

**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.**

**Answer:**

**.model small**

**.stack 100h**

**.data**

**digit1 db 'Enter Digit 1 :$'**

**digit2 db 'Enter Digit 2 :$'**

**sum db 'Sum of the Digits :$'**

**d1 db ?**

**d2 db ?**

**.code**

**main proc**

**mov ax,@data**

**mov ds,ax**

**lea dx,digit1**

**mov ah,9**

**int 21h**

**mov ah,1**

**int 21h**

**mov d1,al**

**mov ah,2**

**mov dl,13**

**int 21h**

**mov dl,10**

**int 21h**

**lea dx,digit2**

**mov ah,9**

**int 21h**

**mov ah,1**

**int 21h**

**mov d2,al**

**sub d1,48**

**sub d2,48**

**mov bl,d1**

**add bl,d2**

**add bl,48**

**mov ah,2**

**mov dl,13**

**int 21h**

**mov dl,10**

**int 21h**

**lea dx,sum**

**mov ah,9**

**int 21h**

**mov dl,bl**

**mov ah,2**

**int 21h**

**mov ah,4ch**

**main endp**

**end main**