## 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

Date of Submission: 06.07.2025

Submitted by,

Name: Danial Hossain Dani Student ID: 20230104058

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