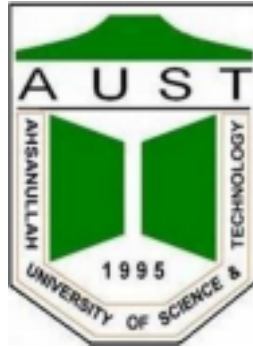


AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY



Department of Computer Science and Engineering Program: BSc in Computer Science and Engineering

Course Code: CSE 2214

Assignment No: 01

Date of Submission:

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 uppercase$'
msg2 db 'lower case is$'

.code

main proc
    mov ax,@data
    mov ds,ax

    mov ah,9
    lea dx,msg1
    int 21h

    mov ah,1
    int 21h
    mov bl,al

    mov ah,2
    mov dl,10
    int 21h
    mov dl,13
    int 21h

    mov ah,9
    lea dx,msg2
    int 21h

    mov ah,2
    add bl,32
    mov dl,bl
    int 21h

    exit:
```

```
    mov ah,4ch
    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 'Input first digit $'
msg2 db 'Input Second digit $'
msg3 db 'Result $'
.code
main proc
mov ax,@data
mov ds,ax
```

```
    mov ah,9
    lea dx,msg1
    int 21h
```

```
    mov ah,1
    int 21h
    mov bl,al
```

```
    mov ah,2
    mov dl,10
    int 21h
    mov dl,13
    int 21h
```

```
    mov ah,9
    lea dx,msg2
```

int 21h

**mov ah,1
int 21h
mov bh,al**

**mov ah,2
mov dl,10
int 21h
mov dl,13
int 21h**

**mov ah,9
lea dx,msg3
int 21h**

**add bl,bh
sub bl,48
mov ah,2
mov dl,bl
int 21h**

**exit:
mov ah,4ch
int 21h
main endp**

end main