

# 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: B-1

**Question 01:** Write a program to input a uppercase letter and display its corresponding lowercase letter.

**Solution:**

```
.model small
.stack 100h
.data
a db 'Upper Case $'
b db 'Lower Case $'

.code

main proc

    mov ax,@data
    mov ds,ax

    mov ah,9
    lea dx,a
    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,b  
int 21h
```

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

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

```
end main
```

**Question 02:** 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.

**Solution:**

```
.model small
.stack 100h
.data
a db 'Input first digit $'
b db 'Input Second digit $'
c db 'Result $'
```

```
.code
```

```
main proc
```

```
mov ax,@data
mov ds,ax
```

```
mov ah,9
lea dx,a
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,b
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,c  
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
```