

# **LAB REPORT – 02**



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## ***Semester:***

***BSAI – 4th Morning***

## ***Subject:***

***Computer Organization and Assembly Language***

## ***Date:***

***07 – Mar – 2024***

## ***Teacher:***

***Miss Mehwish Zeb Abbasi***

## **Lab Task # 02**

**Problem 1:** take two number from user and multiply them.

### **Code:**

```
.model small
.stack 100h
.data
.code
main proc
    mov ah,1
    int 21h
    sub al,30h
    mov bl,al
    mov ah,1
    int 21h
    sub al,30h
    mul bl
    mov dx,ax
    ;mov al,bl
    mov ah,2
    add dx,30h
    ;add dl,48
    int 21h
    main endp
end main
```

### **Output**

**4\*2=8**

***Problem 2:*** take two number from user and divide them.

**Code:**

```
.model small
.stack 100h
.data
.code
main proc
    mov ax,100h
    mov bl,8h
    div bl
    mov bh,10h
    div bh
    mov bh,ah
    mov ah,2
    mov dl,al
    add dl,30h
    int 21h
```

```
    mov ah,2
    mov dl,bh
    add dl,30h
    int 21h
    main endp
end main
```

### **Output**

**6/3=2 0**



***Problem 3:*** take a number from user and return cube.

**Code:**

```
.model small
```

```
.stack 100h
.data
    a db ?
.code
main proc
    mov ah,1
    int 21h
    mov a,al
    sub a,30h
    mov al,1

    mul a

    mul a

    mul a

    mov dx,ax
    mov ah,2
    add dx,30h
    int 21h
    main endp
end main
```

## *Output*

$$\underline{2^3=8}$$

emulator screen (80x25 chars)

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\*\*\*\*\* *The End* \*\*\*\*\*