**Assignment 3**

Microprocessor & Assembly Language

***Submitted To***

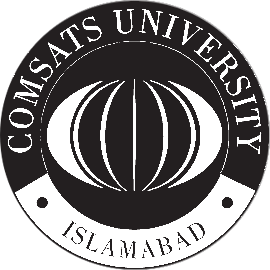
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***Submitted By***

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***FA17-BCS-072***

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**COMSATS University Islamabad**

Sahiwal Campus

.model small

.stack 100h

.data

digit1 db 0ah,0dh, "enter first digit: $"

digit2 db 0ah,0dh, "enter second digit: $"

result db 0ah,0dh, "result is $"

.code

main:

mov ax,@data

mov ds, ax

lea dx, digit1

mov ah, 09h

int 21h

mov ah, 01h

int 21h

sub al,30h

mov bh, al

mov ah, 01h

int 21h

sub al, 30h

mov bl,al ;bh:bl first number

lea dx, digit2

mov ah, 09h

int 21h

mov ah, 01h

int 21h

sub al,30h

mov ch, al

mov ah, 01h

int 21h

sub al, 30h

mov cl, al ; ch:cl second number

add bl, cl

mov al, bl

mov ah, 00h

aaa

mov cl, al ; last digit of answer

mov bl, ah

add bl, bh

add bl,ch

mov al,bl

mov ah,00h

aaa

mov bx,ax

;mov bh,ah

;mov bl,al

mov dx, offset result

mov ah, 09h

int 21h

mov dl, bh

add dl, 30h

mov ah, 02h

int 21h

mov dl, bl

add dl, 30h

mov ah, 02h

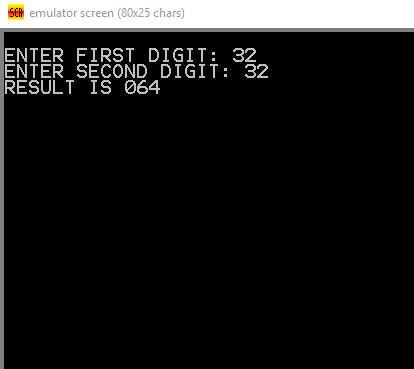
int 21h

mov dl,cl

add dl, 30h

mov ah, 02h

int 21h

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