Assembly Language Lab

Date: 02.10.19

Assembly Hello world Program:

.MODEL SMALL .STACK 100H .DATA

M DB 'Hello World \$'
M2 DB 'DAFFODIL INTERNATIONAL UNIVERSITY\$'

.CODE

MAIN PROC MOV AX,@DATA MOV DS,AX

> MOV AH,09H LEA DX,M

INT 21H

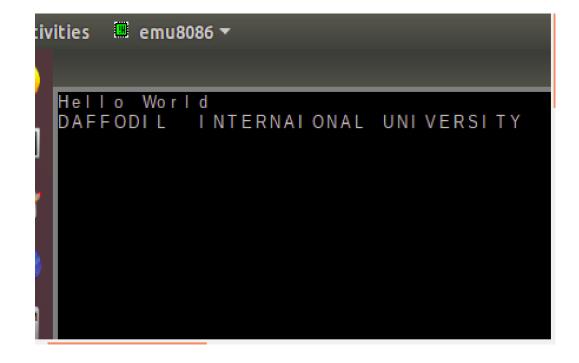
MOV AH,02H MOV DL,13 INT 21H

MOV DL,10 INT 21H

MOV AH,09H LEA DX,M2 INT 21H

MOV AX,4CH INT 21H

MAIN ENDP END MAIN



An assembly code to add two single digit numbers

.MODEL SMALL .STACK 100H .CODE

MAIN PROC MOV AH,01 INT 21H MOV BL,AL

> MOV AH,02H MOV DL,13 INT 21H

MOV DL,10 INT 21H

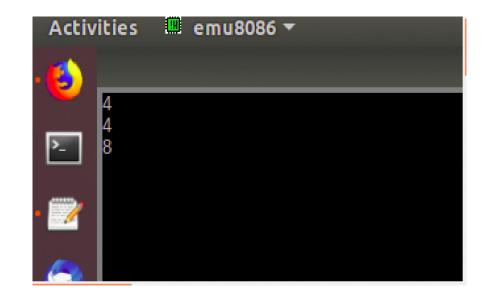
MOV AH,01 INT 21H MOV Bh,AL

MOV AH,02H MOV DL,13 INT 21H

MOV DL,10 INT 21H

ADD BL,Bh SUB BL,30H

MOV AH,02 MOV DL,BL INT 21H



An Assembly code to add two numbers in following way:

Enter 1st Number: 2 Enter 2nd Number: 3

Addition: 5

.MODEL SMALL
.STACK 100H
.DATA
A DB 'ENTER 1ST NUMBER \$'
B DB 'ENTER 2ND NUMBER \$'
R DB 'ADDITION \$'

.CODE

MAIN PROC MOV AX,@DATA MOV DS,AX

> MOV AH,09 LEA DX,A INT 21H

MOV AH,01 INT 21H MOV BL,AL

MOV AH,02H MOV DL,13 INT 21H

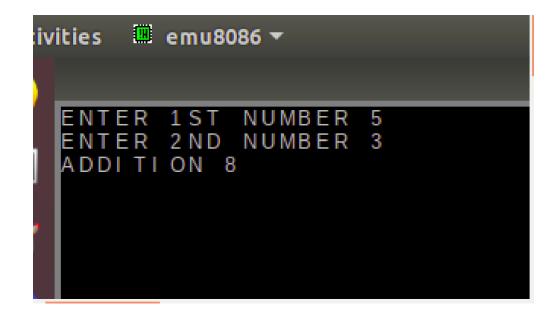
MOV DL,10 INT 21H

MOV AH,09 LEA DX,B INT 21H

MOV AH,01 INT 21H MOV Bh,AL

MOV AH,02H MOV DL,13 INT 21H

MOV DL,10 INT 21H



MOV AH,09 LEA DX,R INT 21H

ADD BL,Bh SUB BL,30H

MOV AH,02 MOV DL,BL INT 21H