Name: - M. Daniyal.

Cource = COAL

Regno:- LIFZOBSCS 0036

Section: C13

Assignment 1

@1

Values of DS = 0×A000

Mov Ax, [0xBCD8] Mov Bx, [0xBCDA] Add Ax, Bx

Mov [0x BC D4], AX

4x = [00 LD

Bx = 00 41

add an, bx

9x = 00 7E

MOV [Ox BEDY], AX

This value will be overwritten and the value of ax will be moved into it i.e.

OXTE-> OXABODY

0x23 -> 0x ABCCB OXAO -> OXA BCCC OXBI-- OXA BCCD OXCZ-> GXA BCCE 0×00-> OXABCCF OXIS-> OXABODO 0×32-> 0×A BCDI 6x25-70xABCD2 OXII-> OXABCD3 Ox FE -> OX AB CD4 OX 11-> OXABCDS 0x95-> OXABCD6 0 x DS-> OAA BCD7 0×1D->0×ABCD8 0×2E -> 0×ABCD9 Ox 61- OXABCDA 0x58->OxABCDB OxAA -> OxABCDL O×AA -> OXABCDD

Sum of first and last element of array.

[org 0x100]

XOY ax, ax XOY bx, bx XOY Cx, CX XOY dx, dx

mon ax, [arr] mon bx, [arr+5] add ax, bx

mer ax, 0x4000 Int 21h

arr: dw 5, 10, 15, 20, 25

Add elements of two arrays and store carry Flag in Index Corry

Eorg 0x100]

XOY ax, dax XOY bx, bx XOY cx, cx XOY dx, dx

mov ax, [arr] mov bx, [arri] add ax, bx mov [arr2],ax

mov ax, [arx] mov bx, [arx] odd ax, bx mov [arr2],ax

mov ax, [arright of the control of t

mov ax, [arr+3] mov bx, [arr+3] add ax, bx mov [arr2+3],ax

mov ax, [arr+4] mov bx, [arr1+4] add ax,bz mov [arr2+4],ax mov ax, [arr+5]
mov by, [arr1+5]
add ax, bx
mov [arr2+5], ax

mov cx, (arr+6]
mov dx, (arr+6]
add cx, dx
mov (arr2+6],cx

mov cx, [arr+7]
mov da, [arr+7]
add cx,dx
mov [arr 2+7],cx

mov cx, [arr+8]

mov dx, [arr+8]; Here it overflow

add cx, dx

mov [arr2+8], cx

mov [Index Carry], cx

mor at, 0x4c00 int 21h

arr: dw 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 arr1: dw 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 arr2: dw 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 Index Carry: dwo, 0, 0, 0, 0, 0, 0, 0, 0, 0

v . 13

Question 4

Change the code to Assembly longuage.

[org 0x100]

xor any an

XOr by, bx

XOY CX, CX

xor dx, dx

mov ax, 0

mov bx, 10h

λ₄ :

mov di, 3

Imp exit

exit

mov ax, 0x4000

int 21h.

CMP by, CX

jne 12

JMP end

22:

add ax, 2

CMP by, ct

JZ lz

IMP end

ls:

mor dx,2

Jmp li