Name: Muhammad Sherjeel Akhtar

**R**oll **N**o: 20P-0101

Subject: Computer Organization And Assembly Language

Lab Task No: 10

Submitted To Respected Sir: Khurram Shahzad

**D**ate: 11<sup>th</sup> April, 2022

EXPLORER							lab_10_1.asm ×		
√ ASSEMBLY									
∞ 9ty.asm		[org	0x0100]						
9TY.COM									
≅ AFD.EXE		jmp s	tart						
■ ALINK.EXE									
■ ALINK.TXT		data:	dw 8,7,1,2,4	.3.6.5.3.4					
ASM Files Home Work 1.zip									
class1_2.asm		size:	dw 10						
E CLASS1_2.COM									
« class1.asm		mean.	dw 0						
class2.asm									
⇔ class3.asm	11	media	n: dw 0						
E CLASS3.COM	12	IIICUIA	11. UW 0						
class4_2.asm	13	mode:	du A						
class4_mahad.asm		mode.	uw o						
« class4.asm		er ion f	lag: dw 0						
			tag: uw v						
≡ history.txt			lateMean:						
≣ kk		Catcu	tatemean:						
E LA6.COM									
*** lab_7_4.asm			ov ax,0						
™ lab_9_1.asm									
E LAB_9_1.COM			ov bx,0						
№ lab_9_2.asm									
™ lab_9_3.asm			ov cx,[size]						
■ LAB_9_3.COM									
** lab_10_1.asm			hl cx,1						
lab_10_2.asm lab_10_start.asm									
*** lab_10_scarc.asm *** Lab1_homework.asm		loop1							
™ lab6_1.asm									
E LAB6_1.COM			dd ax,[data+b	x]					
™ lab7_1_1.asm									
™ lab7_1.asm		a	dd bx,2						
E LAB7_1.COM									
™ lab7_2.asm			mp bx,cx						

.

```
28
        add ax,[data+bx]
29
30
        add bx,2
31
32
        cmp bx,cx
34
        jne loop1
36
        div [size]
        mov [mean],ax
39
41
         ret
42
    CalculateMedian:
44
45
        mov ax,0
        mov bx,0
47
        call bubblesort
50
        mov cx,[size]
51
52
53
        shr cx
54
        shl cx
56
        cmp cx,[size]
```

```
56
57
        cmp cx,[size]
58
        je CalculateMinMean
60
    CalculateMode:
61
62
        call bubblesort
63
64
        mov ax, [data]
65
66
        mov bx, 0
67
68
69
        mov cx, 0
70
        innerloop:
71
72
73
            add bx, 2
74
            cmp ax, [data+bx]
75
76
            jne innerloop
77
78
            mov mode, ax
79
80
81
             ret
82
```

```
jne innerloop
77
78
             mov mode, ax
79
81
             ret
82
    calMinMean:
83
84
        mov ax,[data+cx]
85
        add ax,[data+cx-2]
87
88
        shr ax,1
89
        mov [mediana],ax
91
92
```

```
92
 93
     start:
 94
         call CalculateMean
 95
 96
 97
         call CalculateMedian
 98
         call CalculateMode
99
100
         mov ax, 0x4c00
101
102
         int 0x21
103
104
```