CE258 -MPCO 20DCE019

PRACTICAL - 40

AIM:

Write an assembly language program to arrange an array of 10 data in ascending order. The length of the list is in memory location 2200H and the series itself begins from memory location 2201H

CODE:

```
org 100h
mov [4000h],01h
mov [4001h],03h
mov [4002h],05h
mov [4003h],02h
mov [4004h],04h
mov [4005h],06h
mov bh,5
lab2:
mov si,4001h
mov cx,5
label1:
mov al,[si-1]
mov ah,[si]
cmp al,ah
jg 12
jmp repeat
12:
mov dl,[si-1]
mov bl,[si]
```

DEPSTAR-CE Page: 1

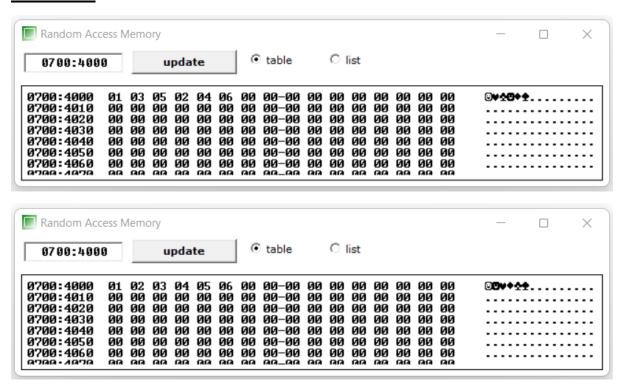
CE258 -MPCO 20DCE019

mov [si-1],bl mov [si],dl jmp repeat

repeat: inc si cmp si,4006h jnz label1

dec bh cmp bh,00h jnz lab2 ret

OUTPUT:



CONCLUSION: In this practical, we learnt how to store array's data into a memory location in ascending order.

DEPSTAR-CE Page: 2