Assignment 9(Bubble sort)

```
org 100h

.data

str db 10,13,"Enter Values: $"
str1 db 0dh,0ah,"Bubble Sorted: $"
array db 10dup(0)

.code

mov ah,9
lea dx,str
int 21h

mov cx,10
mov bx,offset array
mov ah,1

inputs:
int 21h
mov [bx],al
inc bx
Loop inputs

mov cx,10
dec cx
```

```asm
nextscan:
mov bx,cx
mov si,0

nextcomp:
mov al,array[si]
mov dl,array[si+1]
cmp al,dl

jc noswap

mov array[si],dl
mov array[si+1],al

noswap:
inc si
dec bx
jnz nextcomp

loop nextscan


mov ah,9
lea dx,str1
int 21h

mov cx,10
mov bx,offset array
```

; this loop to display elements on the screen

print:

mov ah,2

mov dl,[bx]

int 21h

inc bx

loop print

ret

[/su_box]

Output Screen: