MICROPROCESSOR LAB

EXPERIMENT 3

GAIS AMEER S6 CSE ROLL 33

3. Perform bubble sort on a list of numbers

Program

DATA SEGMENT

COUNT DB 04H

ARR DB 55H,44H,11H,22H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START:

MOV AX,DATA

MOV DS,AX

MOV CL, COUNT

LOOP1:

LEA SI,ARR

MOV CH,CL

DEC CH

JZ HELLO

LOOP2:

MOV BX,SI

INC BX

MOV AL,[SI]

CMP AL,[BX]

JLE SKIP

MOV DH,[BX]

MOV [SI],DH

MOV [BX],AL

SKIP:

INC SI

DEC CH

JNZ LOOP2

HELLO:

DEC CL

JNZ LOOP1

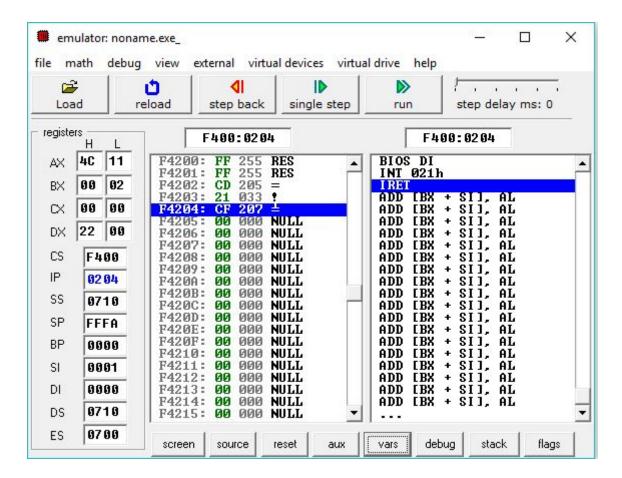
MOV AH,4CH

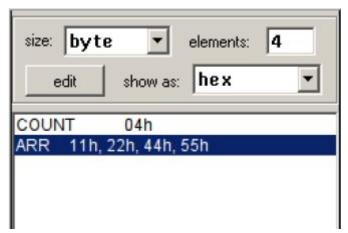
INT 21H

CODE ENDS

END START

Output





Result

Executed program for Bubble sort in emu8086 and obtained the output.