





**MICROPROCESSOR AND**

**INTERFACING**

**Experiment 08**

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AIM:

To find the smallest number in an given array

Code:

ASSUME CS:CODE, DS: DATA

DATA SEGMENT

ORG 3000H

ARRAY DB 75H,72H,80H,18H,76H,09H

COUNT EQU 06H

DATA ENDS

CODE SEGMENT

ORG 3200H

START:

MOV AX, DATA

MOV DS, AX

MOV DX,COUNT-1

LOOP1: MOV CX,DX

MOV SI,OFFSET ARRAY

LOOP2: MOV AL,[SI]

CMP AL,[SI+1]

JC END1

XCHG [SI+1],AL

XCHG [SI],AL

END1: ADD SI,01H

LOOP LOOP2

DEC DX

JNZ LOOP1

XOR AX,AX

MOV AH,[SI-1]

HLT

CODE ENDS

END START

OUTPUT:



