

EXPERIMENT - 4

AIM:- TO PERFORM SORTING ON NUMBERS STORED IN MEMORY LOCATION.

Code-

```
ORG 0000H  
  
MOV R6,#03H  
  
LOOP3:MOV R0,#40H  
  
MOV R1,#41H  
  
MOV R5,#03H  
  
LOOP2: MOV A,@R0  
MOV B,@R1  
CLR C  
SUBB A,B  
MOV A,@R0  
JNC LOOP1  
JC L4  
  
LOOP1: MOV @R0,B  
MOV @R1,A  
  
L4:INC R0  
  
INC R1  
  
DJNZ R5,LOOP2  
  
DJNZ R6,LOOP3  
  
END
```

INPUT-

Address:	D:0x40				
D:0x40:	04	01	07	02	00
D:0x5B:	00	00	00	00	00

OUTPUT-

Address:	D:0x40				
D:0x40:	01	02	04	07	00
D:0x5B:	00	00	00	00	00
