FIND SMALLEST NUMBER

```
assume cs:code, ds: data
 code segment
 start : mov ax, data
      mov ds, ax
      mov si, 0000h
      mov cl, 04h
      mov al, [si]
    up: inc si
      mov bl, [si]
     cmp al, bl
      JC down
     xchg al, bl
  down: dec cl
     JNZ up
     mov [si+1], al
code ends
data segment
num db 12h, 07h, 25h, 18h, 02h
data ends
end
```

```
FIND LARGEST NUMBER
Assume cs:code, ds: data
Code segment
Start: movax, data
        Mov ds, ax
        Movsi, 0000h
        Mov cl, 05h
        Mov al, [si]
  Up: incsi
       Movbl,[si]
        Cmp al, bl
        JNC down
        Xchgal,bl
 Down: dec cl
        JNZ up
        Mov [si+1], al
Code ends
Data segment
Numdb 03h, 05h, 02h, 06h, 01h, 07h
Data ends
End
```

```
WAP TO ARRANGE THE NOS IN ASCENDING ORDER
```

```
assume cs:code, ds:data
code segment
start:mov ax, data
     mov ds, ax
     mov si,0000h
     mov ax,0000h
     mov di, si
     mov cl,05h
prachi:mov ch,cl
       mov al, [si]
     inc si
up:
      cmp al, [si]
      jc down
     xchg al,[si]
down: dec ch
      JNZ up
      mov [di],al
      inc di
      mov si,di
      dec cl
     jnz prachi
code ends
data segment
     num db 03h,02h,01h,04h,05h,06h
data ends
end
```

```
assume cs:code, ds:data
code segment
start: mov ax, data
     mov ds, ax
     mov si, 0000h
      mov ax, 0000h
      mov di, si
      mov cl, 05h
prachi: mov ch, cl
       mov al, [si]
      inc si
up:
      cmp al,[si]
      inc down
      xchg al,[si]
down: dec ch
      JNZ up
       mov [di], al
       inc di
       mov si, di
       dec cl
      jnz prachi
code ends
data segment:
      num db 03h, 02h, 01h, 04h, 05h, 06h
data ends
end
```

EVEN NUMBER

MOV assume cs:code, ds: data

Code segment

Start: mov ax, data

Mov ds, ax

Mov si, 0000h

Mov di, 1000h

Mov ax, 0000h

Mov cl, Oah

Up: mov al, [si]

Ror al, 01h

Inc down

inc ah

Rol al, 01h

Mov [di], al

Inc di

Down: inc si

Dec cl

Inc Up

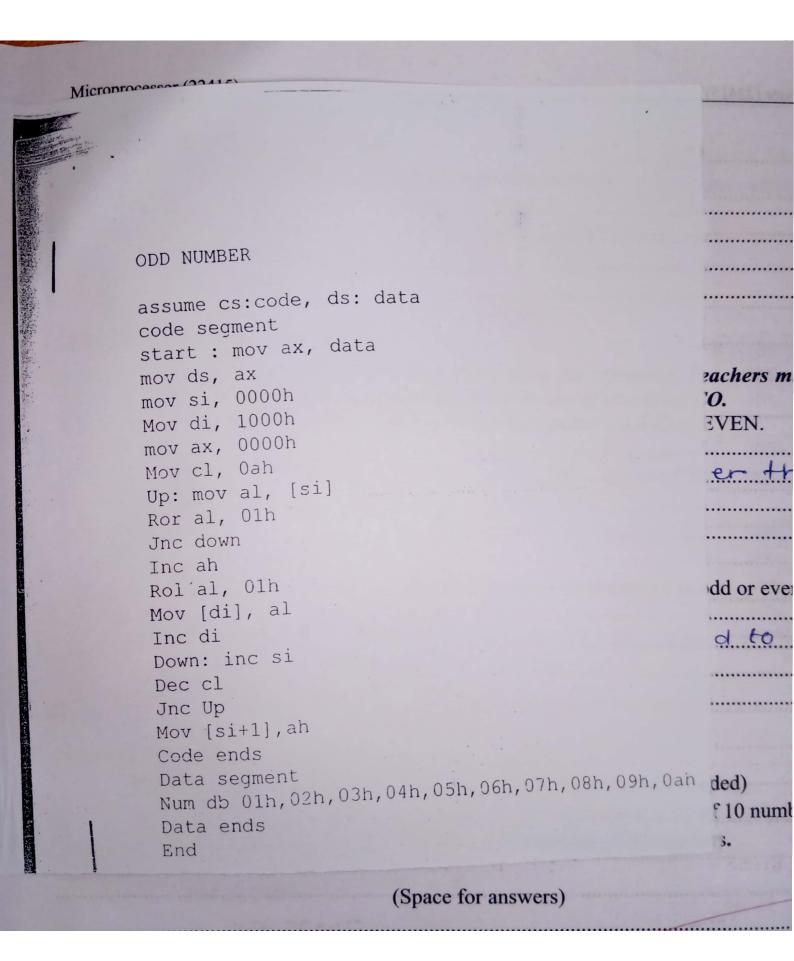
Mov [si+1], ah

Code ends

Data segment

Num db 01h,02h,03h,04h,05h,06h,07h,08h,09h,0ah

Data



Program Code with comments
Assume cs. code data
Code Segment
max Ax data
mov ds , Ax
MON SI ,0000H
mov CL, 09 H
MOV AX, DOOOH
may AL [SI]
up : INC SI
mov BI, [SI]
Add Al, Bl
THC down
INC ah
down idec ci
JNC UP
mov [sit 1], Ax
code ends
data segment
num db olh, olh, olh, olh, olh, olh, olh, olh,
data ends.
Results (Output of the Program)
(5 11)

BLOCK TRANSFER OPERATION

```
assume cs:code,ds:data
code segment
start:mov ax, data
mov ds, ax
mov si,0000h
mov di, 1200h
mov cl, Oah
up:mov al, [si]
mov [di], al
inc si
inc di
dec cı
jnz up
code ends
data segment
num db 01h,02h,03h,04h,05h,06h,07h, 08h,09h,0ah
data ends
end
```