```
a) Write a program to create a file (input file) and to delete an
existing file.
.model small
.data
.code
msg1 db 10,13, "Press 1:create file 2:Delete$"
msg2 db 10,13, "Enter your choice$"
m4 db 10,13,"enter the filename$"
msg3 db 10,13, "Error$"
f1 db 20 dup(00)
f2 db 20 dup(00)
mov ax,@data
mov ds,ax
 lea dx,msg1
 call display
 mov ah,01h
 int 21h
 cmp al, '1'
 je CREATE
 cmp al, '2'
 je DELETE
 error:
 call display
 exit:
 int 21h
 CREATE:
```

12.

mov ah,09h

```
int 21h
 lea si,f1
enter: mov ah,01h
 int 21h
 cmp al,0dh
 je c1
mov [si],al
 inc si
 jmp enter
c1: mov cx,0
 lea dx,F1
 mov ah,3ch
 int 21h
 jc error
 jmp exit
DELETE:
 mov ah,09h
 int 21h
 lea si,f2
enter1: mov ah,01h
 int 21h
 cmp al,0dh
 je c2
 mov [si],al
 inc\ si
 jmp enter1
 c2: lea dx,F2
```

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mov ah,41h
 int 21h
 jc error
 jmp exit
 display PROC
 mov ah,09h
 int 21h
 RET
lea dx,msg3
mov ah,4ch
lea dx,m4
lea dx,m4
 display ENDP
 end
b) Drive an elevator interface in the following way:
i. Initially the elevator should be in the ground floor, with all
requests in OFF state.
ii. When a request is made from a floor, the elevator should move to
that floor, wait there
for a couple of seconds (approximately), and then come down to
ground floor and stop. If some
requests occur during going up or coming down they should be
ignored.
.model small
.stack
.data
.code
up1: in al,dx
GND: mov cx,01H
```

PA equ 9800H

PB equ 9801H

PC equ 9802H

CR equ 9803H

mov ax,@data

mov ds,ax

mov al,82H

mov dx,CR

out dx,al

mov dx,0F0H

mov dx,PA

out dx,al

mov dx,PB

and al,0FH

cmp al,0FH

je up1

shr al,01H

jnc GND

shr al,01H

jnc First

shr al,01H

jnc Second

shr al,01H

jnc Third

call SERVICE

jmp exit

First: mov cx,04H

```
call SERVICE
jmp exit
Second: mov cx,07H
call SERVICE
jmp exit
Third: mov cx,0aH
call SERVICE
jmp exit
exit : mov ah,4cH
int 21H
SERVICE PROC
mov bl,cl
mov al,0F0H
mov dx, PA
up2: out dx,al
call delay
inc al
loop up2
call delay
call delay
dec al
mov cl,bl
up3: out dx,al
call delay
dec al
loop up3
```

RET

SERVICE ENDP

delay PROC

push bx

push cx

up5: mov bx,0FFFFH

up4: dec bx

jnz up4

loop up5

pop cx

pop bx

RET

delay ENDP

 $\quad \text{end} \quad$