

DESCRIPTION

- **INTRODUCTION**

This project is on phonebook. The project provides features like password protection, view contact, delete contact, edit contact, speed-dial, calling, etc. the additional feature is taking a backup of all your contact into file which can be used on your smartphone.

- **FUNCTION CALLS AND PROCEDURES**

1. **GRAPHICS MODE.**

```
grapmode proc      ;for graphic mode  
  
mov al,13h  
  
mov ah,00  
  
int 10h  
  
ret  
  
endp
```

2. **CREATE CONTACT.**

```
cr_file: call grapmode  
  
lea dx, msg2      ; module for creating a file  
  
call disp1  
  
call read1        ; read name of file to be  
  
lea dx, buffer1[2] ; created  
  
mov cx, 0  
  
mov ah, 3ch       ; create the file  
  
int 21h  
  
mov handle,ax     ; push file handle onto stack.  
  
writex: lea dx, msg28 ; ask if data is to
```

```

        call disp1

        mov bx,handle          ; retrieve file handle from stack.

        mov buffer1[1], 0

write : call readch            ; read data character by character.

        cmp al,40h

        jnc writex

        mov buffer1[0], al

        cmp buffer1[0], 27     ; check if character is 'Esc'(stop).

        jz no

        cmp buffer1[0], 0dh

        jne neol

        lea dx, msg31

        call disp1

        mov si, dx

        mov byte ptr ds:[si + 2], 0

        mov cx, 3

        jmp com

neol :  mov cx, 1

        lea dx, buffer1[0]

com :   mov ah, 40h            ; write to the file

        int 21h

        mov byte ptr ds:[si + 2], '$'

        jmp write

no :    mov bx,handle

        mov AH,3Eh

        int 21h

```

```
    lea dx, msg16      ; creation successful
    call disp1
    mov bl,02
    call delay
    jmp begin
```

3. VIEW CONTACT.

```
vw_file:lea dx, msg5    ; module to view the
    call disp1          ; contents of a file
    lea dx, buffer1[2]
    call disp1
    lea dx, msg6 ;Number: string
    call disp1
    lea dx, buffer1[2]
    mov al, 02h ;read/write mode
    mov ah, 3dh ; open the existing file
    int 21h

    mov buffer2[0], 0
    cmp ax, 2           ; error if file not found
    jnz v_err
    lea dx, msg14
    call disp1
    jmp endv

v_err:  cmp ax, 3       ; error if path not found
    jnz cont2
```

```
lea dx, msg21
```

```
call disp1
```

```
mov flag,1
```

```
jmp endv
```

```
cont2: mov handle, ax
```

```
mov bx, handle      ;file handle
```

```
mov cx, 1           ;no of byte to read
```

```
lea dx, buffer1
```

```
mov ah, 3fh         ; read the file
```

```
int 21h
```

```
cmp ax, 0           ; stop if end-of-file
```

```
jz endv
```

```
cmp buffer1[0], 0dh
```

```
jnz show
```

```
inc buffer2[0]
```

```
cmp buffer2[0], 23   ; check if end of page
```

```
jnz show
```

```
lea dx, msg26
```

```
call disp1
```

```
show : mov buffer1[1], '$'
```

```
lea dx, buffer1
```

```
call disp1
```

```
mov ax, handle
```

```
jmp cont2
```

```
end :
```

```

jay:    cmp flag,0
        jne jj2
        jmp calling
jj2:    jmp optn2

```

4. EDIT CONTACT.

ed_file:call grapmode

```

        lea dx, buffer1[2]    ; created
        mov cx, 0
        mov ah, 3ch           ; create the file
        int 21h
        mov handle, ax        ; push file handle onto stack.
writex2:lea dx, msg28         ; ask if data is to
        call disp1
        mov bx, handle        ; retrieve file handle from stack.
        mov buffer1[1], 0
write2 :call readch           ; read data character by character.
        cmp al,40h
        jnc writex2
        mov buffer1[0], al
        cmp buffer1[0], 27    ; check if character is 'Esc'(stop).
        jz no2
        cmp buffer1[0], 0dh
        jne neol2
        lea dx, msg31
        call disp1

```

```
mov si, dx
mov byte ptr ds:[si + 2], 0
mov cx, 3
jmp com2
```

```
neol2 :mov cx, 1
      lea dx, buffer1[0]
```

```
com2 :mov ah, 40h      ; write to the file
      int 21h
      mov byte ptr ds:[si + 2], '$'
      jmp write2
```

```
no2 :mov bx,handle
      mov AH,3Eh
      int 21h
      lea dx, msg16    ; creation successful
      call disp1
      mov bl,02
      call delay
      jmp begin
```

5. DELETE CONTACT.

```
dl_file:call grapmode
        lea dx, buffer1[2]
        mov ah, 41h          ; delete the file
        int 21h
        cmp ax, 2            ; error if file not found
        jnz err2
        lea dx, msg14
        call disp1
        jmp endd
err2 : cmp ax, 5              ; error if access denied
        jnz done
        lea dx, msg15
        call disp1
        jmp endd
done : lea dx, msg17          ; delete successful
        call disp1
endd : mov bl,02
        call delay
        jmp begin
```

6. CREATE BUTTON.

```
        mov cx,0bh          ;column
        mov dx,0b0h          ;row
        mov al,0fh           ;button colour(white)
        mov ah,0ch           ;change colour for single pixel
sna:    int 10h
```

```

inc cx
cmp cx,4ah
jne sna
inc dx
mov cx,0Bh
cmp dx,0c2h
jne sna

```

7. STRING ON BUTTON.

```

mov ax,data
mov es,ax
mov al,01h           ;string write mode with attr.
mov bh,0h           ;page no
mov bl, 0fh         ;colour
mov cx,06h          ;string length
mov dl,2h           ; 1Bh+4h=20h=32d 32d/8d=4pixel
mov dh,17h
mov bp,offset but1
mov ah,13h          ;display string with attr. in graphical mode
int 10h

```

8. MOUSE CLICK.

```

again: mov ax,0000h
      int 33h
      cmp ax,0000h
      je again      ;End Mouse initialization....

```



```

                                ;show initialized mouse pointer
mov ax, 0001h
int 33h                        ;endsssssssss show initialized mouse pointer
                                ;check for button click.....
check: mov fileno,0h
      mov ax,0003h
      int 33h
      cmp bx,1h                ;any button pressed
      jne check
      shr cx,01h
      cmp cx,0Bh               ;greater than or equal 0B we want!!!!
      jc che1
      cmp cx,4ah               ;less than 4A!!!!
      jnc che1
      cmp dx,0b0h              ;greater than or equal 0B0 we want!!!!
      jc che1
      cmp dx,0c3h              ;less than C3!!!!
      jnc che1
      jmp cr_file              ;jump to create

```

9. DISPLAY STRING ON SCREEN.

```

disp1 proc
mov ah, 09h  ; module for display of
int 21h      ; a string on screen
ret
disp1 endp

```

10.READING STRING FROM KEYBOARD.

```
read1 proc                                ; module for reading
mov buffer1[0], 80
mov buffer1[1],0
lea dx, buffer1
mov ah, 0ah ; read string from keyboard
int 21h
mov bl, buffer1[1]
mov bh, 0
add bx, 2
mov buffer1[bx], 0 ; ASCIIZ string, so
ret ; terminate with 0
read1 endp
```

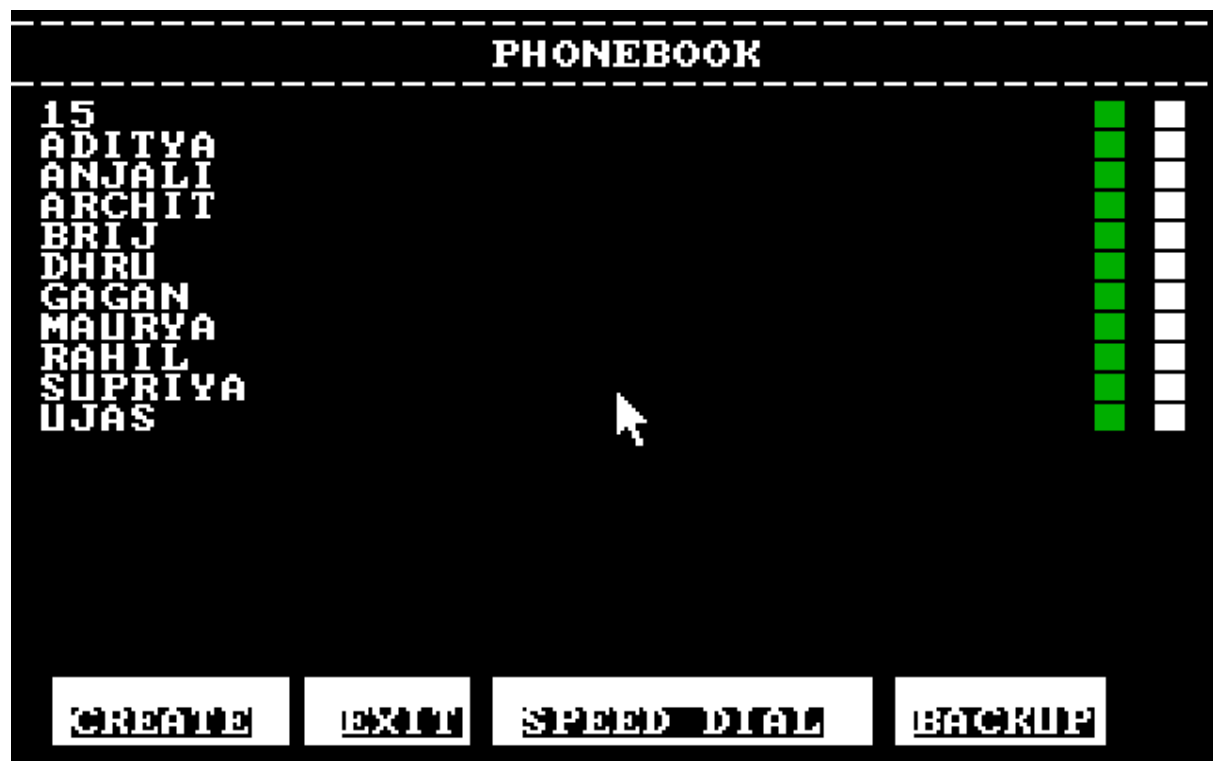
SCREENSHOTS

- PASSWORD PROTECTION

```
E:\>rahp.exe  
PASSWORD asd  
PASSWORD NOT MATCHED....ACCESS DENIED
```

```
E:\>rahp.exe  
PASSWORD MATCHED.....WELCOME_
```

- HOME PAGE



- **EDIT CONTACT**

(ORIGINAL CONTACT)

```
Search Name : 15  
Number : 888888
```

(EDITTED CONTACT)

```
Search Name : 15  
Number : 278678
```

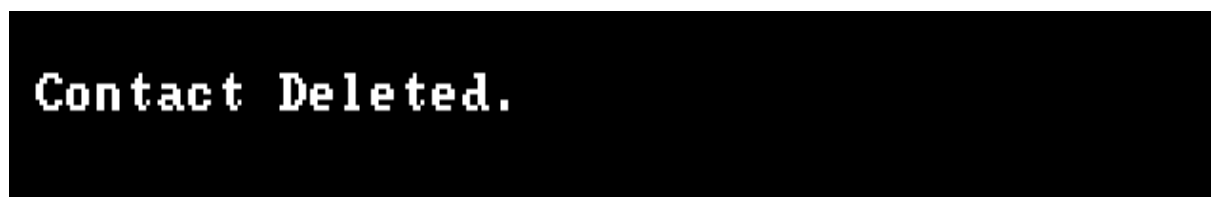
- **CREATE CONTACT**

```
Enter Name: Akshay  
Enter Number(Esc to stop):7680003421←  
Contact created.
```

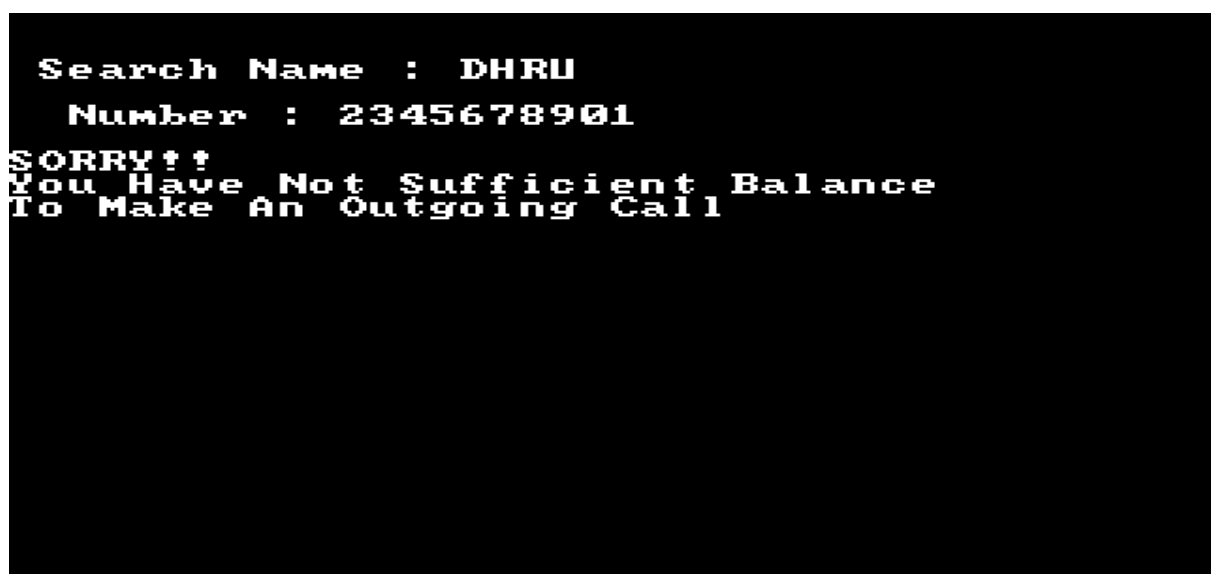
- VIEW CONTACT



- DELETE CONTACT



- CALL CONTACT



- **SPEED DIAL**

