

```

#!/bin/sh

bookName="AddressBook.txt"
passfile="pass.txt"

newLine()
{
    printf "\n#-----#\n"
}

line()
{
    echo "#-----#"
}

menuline()
{
    echo "#~~~~~ MENU ~~~~~#"
}

login()
{
    if [ -f $passfile ]
    then
        echo "Enter Password: "
        read pass

        echo "$pass" | md5sum > "copy$passfile"
        pass=`cat copy$passfile`
        rm "copy$passfile"

        stored=`cat $passfile`

        if [ "$stored" = "$pass" ]
        then
            echo "Welcome $(whoami)"
        else
            echo "Wrong password."
            exit
        fi
    else
        printf "Enter a password: "
        read pass

        echo "$pass" | md5sum > "$passfile"
        chmod 444 "$passfile"
    fi
}

createBook()
{
    newLine

    echo create book

    read bookName
    if [ ${#bookName} -ne 0 ]
    then
        touch "$bookName"
    else
        echo "INVALID NAME"
    fi
}

insertRecord()
{
    newLine
    printf "Enter Name: "
    read name

    printf "Enter Mobile No.: "
    read mobile

    printf "Enter Address: "
    read address

    printf "Enter Email: "
    read email

    printf "Enter Zip Code.: "
    read zcode
}

```

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        printf "%-10.10s %-10.10s %-15.15s %-15.15s %-6.6s\n" "$name" "$mobile" "$address" "$email" "$zcode" >>
"$bookName"
}

viewRecords()
{
    newLine
    printf "%-10.10s %-10.10s %-15.15s %-15.15s %-8.8s\n" "NAME" "MOBILE" "ADDRESS" "EMAIL" "ZIP-CODE"
    line
    cat "$bookName"
}

updateRecord()
{
    newLine

    printf "Enter Mobile No.: "
    read key

    grep -qwi "$key" "$bookName"

    if [ $? -eq 0 ]
    then
        echo "Record Found."
        echo "Enter New Details: "

        printf "Enter Name: "
        read name

        printf "Enter Mobile No.: "
        read mobile

        printf "Enter Address: "
        read address

        printf "Enter Email: "
        read email

        printf "Enter Zip Code.: "
        read zcode

        edit=`printf "%-10.10s %-10.10s %-15.15s %-15.15s %-6.6s\n" "$name" "$mobile" "$address" "$email"
"$zcode"`
        sed -i "s/.*\b$key\b.*/$edit/" "$bookName"
    else
        echo "Record Not Found."
    fi
}

deleteRecord()
{
    newLine
    printf "Enter Mobile No.: "
    read key
    line
    printf "%-10.10s %-10.10s %-15.15s %-15.15s %-8.8s\n" "NAME" "MOBILE" "ADDRESS" "EMAIL" "ZIP-CODE"
    line
    grep -wi "$key" "$bookName"
    if [ $? -eq 0 ]
    then
        echo ;
        sed -i "/.*\b$key\b.*/d" "$bookName"
        echo "Record Found and Deleted"
    else
        echo ;
        echo "Record Not Found"
    fi
}

searchRecord()
{
    newLine
    printf "Enter Mobile No.: "
    read key
    line
    printf "%-10.10s %-10.10s %-15.15s %-15.15s %-8.8s\n" "NAME" "MOBILE" "ADDRESS" "EMAIL" "ZIP-CODE"
    line
    grep -qwi "$key" "$bookName"
    if [ $? -eq 0 ]
    then
        grep -wi "$key" "$bookName"
    fi
}

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        else
            echo "Record Not Found."
        fi
    }

exitProgram()
{
    echo "Exiting."
    exit
}

main()
{
    login
    while true
    do
        # clear
        menuline
        echo "1) Create Address Book"
        echo "2) Insert Record"
        echo "3) View Records"
        echo "4) Update Record"
        echo "5) Delete Record"
        echo "6) Search Record"
        echo "7) Exit"
        printf "Enter Choice: "
        read choice

        case $choice in
            1 )    createBook
                    ;;
            2 )    insertRecord
                    ;;
            3 )    viewRecords
                    ;;
            4 )    updateRecord
                    ;;
            5 )    deleteRecord
                    ;;
            6 )    searchRecord
                    ;;
            7 )    exitProgram
                    ;;
            * )    printf "Wrong Choice."
        esac
        newline

        read tmp          #waiting for key press
    done
}

#begin here
main

```

<<output

```

Enter a password: siddhesh
#~~~~~ MENU ~~~~~#
1) Create Address Book
2) Insert Record
3) View Records
4) Update Record
5) Delete Record
6) Search Record
7) Exit
Enter Choice: 1

#-----#
create book
addressbook

#-----#

#~~~~~ MENU ~~~~~#
1) Create Address Book
2) Insert Record
3) View Records
4) Update Record
5) Delete Record
6) Search Record
7) Exit

```

Enter Choice: 2

```
#-----#
Enter Name: siddhesh
Enter Mobile No.: 963852741
Enter Address: dhule
Enter Email: sid2203
Enter Zip Code.: 424005
```

```
#-----#
```

```
#~~~~~ MENU ~~~~~#
```

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 2

```
#-----#
```

Enter Name: mans
Enter Mobile No.: 741852963
Enter Address: dhule
Enter Email: manas4152
Enter Zip Code.: 421536

```
#-----#
```

```
#~~~~~ MENU ~~~~~#
```

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 2

```
#-----#
```

Enter Name: sahil
Enter Mobile No.: 123456789
Enter Address: pune
Enter Email: sahil07
Enter Zip Code.: 415241

```
#-----#
```

```
#~~~~~ MENU ~~~~~#
```

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 3

```
#-----#
```

NAME	MOBILE	ADDRESS	EMAIL	ZIP-CODE
siddhesh	963852741	dhule	sid2203	424005
mans	741852963	dhule	manas4152	421536
sahil	123456789	pune	sahil07	415241

```
#-----#
```

```
#~~~~~ MENU ~~~~~#
```

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 4

```
#-----#
```

Enter Mobile No.: 741852963
Record Found.
Enter New Details:

Enter Name: manas
Enter Mobile No.: 741852963
Enter Address: 415263
Enter Email: manas7485
Enter Zip Code.: 124758

#-----#

#~~~~~ MENU ~~~~~#

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 6

#-----#

Enter Mobile No.: 741852963

#-----#

NAME	MOBILE	ADDRESS	EMAIL	ZIP-CODE
manas	741852963	415263	manas7485	124758

#-----#

#~~~~~ MENU ~~~~~#

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 3

#-----#

NAME	MOBILE	ADDRESS	EMAIL	ZIP-CODE
siddhesh	963852741	dhule	sid2203	424005
manas	741852963	415263	manas7485	124758
sahil	123456789	pune	sahil07	415241

#-----#

#~~~~~ MENU ~~~~~#

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 5

#-----#

Enter Mobile No.: 963852741

#-----#

NAME	MOBILE	ADDRESS	EMAIL	ZIP-CODE
siddhesh	963852741	dhule	sid2203	424005

Record Found and Deleted

#-----#

#~~~~~ MENU ~~~~~#

- 1) Create Address Book
- 2) Insert Record
- 3) View Records
- 4) Update Record
- 5) Delete Record
- 6) Search Record
- 7) Exit

Enter Choice: 7

output