

Assignment 1

Write a program to implement an address book with options given below: a) Create address book. b) View address book. c) Insert a record. d) Delete a record. e) Modify a record. f) Exit

Program:

Addressbook.sh

```
opt=1
```

```
while [ "$opt" -lt 6 ]
```

```
do
```

```
    echo -e "Choose one of the following\n1. Create a new Address Book\n2. View Records\n3. Insert new Records\n4. Delete a record\n5. Modify a record\n6. Exit"
```

```
    read opt
```

```
    case $opt in
```

```
    1)
```

```
        echo "Enter Filename:"
```

```
        read fileName
```

```
        if [ -e "$fileName" ]; then
```

```
            rm "$fileName"
```

```
        fi
```

```
        echo -e "NAME\tNUMBER\t\tADDRESS\
```

```
n=====\\n" >
```

```
"$fileName"
```

```
        cont=1
```

```
        while [ "$cont" -gt 0 ]
```

```
        do
```

```
            echo "Enter Name:"
```

```
            read name
```

```
            echo "Enter Phone Number of $name:"
```

```
            read number
```

```
            echo "Enter Address of $name:"
```

```
            read address
```

```
            echo "$name\t$number\t\t$address" >> "$fileName"
```

```
            echo "Enter 0 to stop, 1 to enter next:"
```

```
            read cont
```

```
        done
```

```
        ;;
```

```
    2)
```

```
        if [ -e "$fileName" ]; then
```

```

        cat "$fileName"
    else
        echo "No Address Book found."
    fi
;;

```

3)

```

if [ -e "$fileName" ]; then
    echo "\nEnter Name"
    read name
    echo "Enter Phone no of $name"
    read number
    echo "Enter Address of $name"
    read address
    echo "$name\t$number\t\t$address" >> "$fileName"
else
    echo "No Address Book found. Create a new one first (Option 1)."
fi
;;

```

4)

```

if [ -e "$fileName" ]; then
    echo "Delete a record\nEnter Name / Phone Number"
    read pattern
    grep -v "$pattern" "$fileName" > temp
    mv temp "$fileName"
else
    echo "No Address Book found."
fi
;;

```

5)

```

if [ -e "$fileName" ]; then
    echo "Modify a record\nEnter Name / Phone Number"
    read pattern
    echo "Enter new Name:"
    read newName
    echo "Enter new Phone Number:"
    read newNumber
    echo "Enter new Address:"
    read newAddress
    sed -i "s/^\$pattern.*\/\$newName\t\$newNumber\t\t\$newAddress\/" "$fileName"
else
    echo "No Address Book found."
fi

```

```

;;

6)
    echo "Exiting..."
    exit 0
;;

*)
    echo "Invalid option. Please enter a number between 1 and 6."
    ;;
esac
done

```

Output:

```

pl-8@pl8-OptiPlex-3020:~/05_OS$ sh Addressbook.sh
-e Choose one of the following
1. Create a new Address Book
2. View Records
3. Insert new Records
4. Delete a record
5. Modify a record
6. Exit
1
Enter Filename:
Record_1
Enter Name:
Raghav Shah
Enter Phone Number of Raghav Shah:
1234567890
Enter Address of Raghav Shah:
xyz,nashik
Enter 0 to stop, 1 to enter next:
0
-e Choose one of the following
1. Create a new Address Book
2. View Records
3. Insert new Records
4. Delete a record
5. Modify a record
6. Exit
3
Enter Name
Manisha Kour
Enter Phone no of Manisha Kour
9087654321

```

Enter Address of Manisha Kour
gandhi nagar,pune

-e Choose one of the following

1. Create a new Address Book
2. View Records
3. Insert new Records
4. Delete a record
5. Modify a record
6. Exit

3

Enter Name

Radhika Patil

Enter Phone no of Radhika Patil

2314567543

Enter Address of Radhika Patil

Gangapur road , Nashik

-e Choose one of the following

1. Create a new Address Book
2. View Records
3. Insert new Records
4. Delete a record
5. Modify a record
6. Exit

3

Enter Name

Shakti Das

Enter Phone no of Shakti Das

3214532132

Enter Address of Shakti Das

Ram nagar,navi mumbai

-e Choose one of the following

1. Create a new Address Book
2. View Records
3. Insert new Records
4. Delete a record
5. Modify a record
6. Exit

2

-e NAME NUMBER ADDRESS

=====

Raghav Shah 1234567890

xyz,nashik

Manisha Kour 9087654321

gandhi nagar,pune

Radhika Patil 2314567543

Gangapur road , Nashik

Shakti Das 3214532132

Ram nagar,navi mumbai

-e Choose one of the following

1. Create a new Address Book
2. View Records

3. Insert new Records

4. Delete a record

5. Modify a record

6. Exit

4

Delete a record

Enter Name / Phone Number

Shakti Das

-e Choose one of the following

1. Create a new Address Book

2. View Records

3. Insert new Records

4. Delete a record

5. Modify a record

6. Exit

2

-e NAME NUMBER ADDRESS

=====

Raghav Shah 1234567890

xyz,nashik

Manisha Kour 9087654321

gandhi nagar,pune

Radhika Patil 2314567543

Gangapur road , Nashik

-e Choose one of the following

1. Create a new Address Book

2. View Records

3. Insert new Records

4. Delete a record

5. Modify a record

6. Exit

5

Modify a record

Enter Name / Phone Number

Radhika Patil

Enter new Name:

Payal Nandan

Enter new Phone Number:

2343234232

Enter new Address:

Gangapur road, Nashik

-e Choose one of the following

1. Create a new Address Book

2. View Records

3. Insert new Records

4. Delete a record

5. Modify a record

6. Exit

6

Exiting...