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Roll: 56
Subject: OS Lab
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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:~$ cd Kushal_Files
pl-8@pl8-OptiPlex-3020:~/Kushal_Files$ 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:
Kushal_DB
Enter Name:
Kushal
Enter Phone Number of Kushal:
1234567890
Enter Address of Kushal:
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
2
-e NAME   NUMBER   ADDRESS
==

Kushal 1234567890   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
Rohan
Enter Phone no of Rohan
0987654321
Enter Address of Rohan
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
2

```
-e NAME       NUMBER            ADDRESS
========================================================

Kushal 1234567890          Nashik
Rohan  0987654321          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
4
Delete a record
Enter Name / Phone Number
Rohan
-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
========================================================

Kushal 1234567890          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
Kushal
Enter new Name:
Kushal
Enter new Phone Number:
5555555555
Enter new Address:
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

2
-e NAME   NUMBER   ADDRESS
==

Kushal 5555555555   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
6
Exiting...