**Title :** 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

**Code:**

ch=1

while [ $ch -ne 7 ]

do

echo -e "\nEnter the choise to perform operation on Address Book "

echo -e "1.Create Address Book \n2.Insert a Record \n3.Modify a record \n4.View Address Book \n5.Search Record in Address Book \n6.Delete a Record \n7.Exit"

read ch

case $ch in

1)

echo "Enter the file name"

read filename

touch $filename

echo "Address Book Name $filename Created"

;;

2)

if [ -f $filename ]

then

echo "Enter the Name of Person"

read pname

echo "Enter the Person ID"

read pid

echo "Enter the City Name"

read pcity

while [ True ]

do

echo "Enter the Mobile No."

read pmob

if [ ${#pmob} -eq 10 ]

then

break

else

echo "Enter The valid 10 Digit Mobile No."

fi

done

echo -e "$pname\t$pid\t$pcity\t$pmob" >> $filename

fi

;;

3)

if [ -f $filename ]

then

echo -e "\n1.Modify the specific Record \n2.Modify all the Record"

read ch1

case $ch1 in

1)

echo -e "Enter the Person Id to get Record Line Number"

read pidrecord

lineno=$(grep -n $pidrecord $filename | cut -d ":" -f1)

echo -e "Which field You Want to modify \n1.Person Name \n2.Person ID \n3.City \n4.Mobile No."

read ch2

case $ch2 in

1)

echo -e "\nEnter name of person"

read pname

echo -e "\nEnter Name to Modify"

read pnamepatt

sed -i "${lineno} s/$pname/$pnamepatt/" $filename

;;

2)

echo -e "\nEnter ID of person"

read pid

echo -e "\nEnter ID to Modify"

read pidpatt

sed -i "${lineno} s/$pid/$pidpatt/" $filename

;;

3)

echo -e "\nEnter city of person"

read pcity

echo -e "\nEnter City to Modify"

read pcitypatt

sed -i "${lineno} s/$pcity/$pcitypatt/" $filename

;;

4)

echo -e "\nEnter mobile no. of person"

read pmob

echo -e "\nEnter Mobile No. to Modify"

read pmobpatt

sed -i "${lineno} s/$pmob/$pmobpatt/" $filename

;;

esac

;;

2)

echo -e "\nEnter the Old String"

read patternold

echo -e "\nEnter the New String"

read patternnew

sed -i 's/'$patternold'/'$patternnew'/' $filename

;;

esac

else

echo "File Does not Exist"

fi

;;

4)

if [ -f $filename ]

then

cat $filename

else

echo "File Does not Exist"

fi

;;

5)

if [ -f $filename ]

then

echo -e "Enter the Person ID to search record"

read pidpatt

grep $pidpatt $filename

else

echo "File Does not Exist"

fi

;;

6)

if [ -f $filename ]

then

echo -e "Enter the Person ID to delete record"

read pidpatt

echo "Record deleted sucessfully"

grep $pidpatt $filename

sed -i '/'$pidpatt'/d' $filename

else

echo "File Does not Exist"

fi

;;

7)

echo -e "\nProgram Ended"

;;

esac

done

**Output :**

pranav@LAPTOP-TB69H925:~$ cd OS

pranav@LAPTOP-TB69H925:~/OS$ ./addbook.sh

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

1

Enter the file name

addbook.txt

Address Book Name addbook.txt Created

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

2

Enter the Name of Person

Pranav

Enter the Person ID

t21032

Enter the City Name

jarud

Enter the Mobile No.

12334

Enter The valid 10 Digit Mobile No.

Enter the Mobile No.

1234567890

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

2

Enter the Name of Person

Abhi

Enter the Person ID

T21033

Enter the City Name

jarud

Enter the Mobile No.

7492848382

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

2

Enter the Name of Person

Mohak

Enter the Person ID

T21001

Enter the City Name

Nashik

Enter the Mobile No.

8563748283

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

2

Enter the Name of Person

Deep

Enter the Person ID

t21029

Enter the City Name

jalgaon

Enter the Mobile No.

8452693847

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

2

Enter the Name of Person

Aditya

Enter the Person ID

t21055

Enter the City Name

CSMN

Enter the Mobile No.

5674728458

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

4

Pranav t21032 jarud 1234567890

Abhi T21033 jarud 7492848382

Mohak T21001 Nashik 8563748283

Deep t21029 jalgaon 8452693847

Aditya t21055 CSMN 5674728458

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

3

1.Modify the specific Record

2.Modify all the Record

1

Enter the Person Id to get Record Line Number

T21033

Which field You Want to modify

1.Person Name

2.Person ID

3.City

4.Mobile No.

1

Enter name of person

Abhi

Enter Name to Modify

Abhijit

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

4

Pranav t21032 jarud 1234567890

Abhijit T21033 jarud 7492848382

Mohak T21001 Nashik 8563748283

Deep t21029 jalgaon 8452693847

Aditya t21055 CSMN 5674728458

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

3

1.Modify the specific Record

2.Modify all the Record

2

Enter the Old String

jarud

Enter the New String

Warud

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

4

Pranav t21032 Warud 1234567890

Abhijit T21033 Warud 7492848382

Mohak T21001 Nashik 8563748283

Deep t21029 jalgaon 8452693847

Aditya t21055 CSMN 5674728458

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

5

Enter the Person ID to search record

t21029

Deep t21029 jalgaon 8452693847

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

6

Enter the Person ID to delete record

T21033

Record deleted sucessfully

Abhijit T21033 Warud 7492848382

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

4

Pranav t21032 Warud 1234567890

Mohak T21001 Nashik 8563748283

Deep t21029 jalgaon 8452693847

Aditya t21055 CSMN 5674728458

Enter the choise to perform operation on Address Book

1.Create Address Book

2.Insert a Record

3.Modify a record

4.View Address Book

5.Search Record in Address Book

6.Delete a Record

7.Exit

7

Program Ended

pranav@LAPTOP-TB69H925:~/OS$