**Assignment No. 1**

1. **Study of Basic Linux Commands: echo, ls, read, cat, touch, test, loops, arithmetic comparison, conditional loops, grep, sed etc.**
2. **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**

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 Record\n4. Delete a Record\n5. Modify a Record\n6. Exit"

# echo -e, enables special features of echo to use \n \t \b etc.

read opt case $opt in 1)

file

$fileName

echo "Enter filename" read fileName

if [ -e $fileName ] ; then # -e to check if file exists, if exits remove the

rm $fileName

fi cont=1

echo "NAME\tNUMBER\t\tADDRESS\n=======\n" | cat >>

while [ "$cont" -gt 0 ] do

done

;;

2)

echo "\nEnter 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" | cat >> $fileName echo "Enter 0 to Stop, 1 to Enter next"

read cont

cat $fileName

;;

|  |  |  |
| --- | --- | --- |
|  | 3) |  |
|  | echo "\nEnter 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" | cat >> $fileName |
|  | ;; |
| 4) |  |
|  | echo "Delete record\nEnter Name/Phone Number" |
|  | read pattern |
|  | temp="temp" |
|  | grep -v $pattern $fileName | cat >> $temp |
|  | rm $fileName |
|  | cat $temp | cat >> $fileName |
|  | rm $temp |
|  | ;; |
| 5) |  |
|  | echo "Modify record\nEnter Name/Phone Number" |
|  | read pattern |
|  | temp="temp" |
|  | grep -v $pattern $fileName | cat >> $temp |
|  | rm $fileName |
|  | cat $temp | cat >> $fileName |
|  | rm $temp |
|  | echo "Enter Name" |
|  | read name |
|  | echo "Enter Phone Number of $name" |
|  | read number |
|  | echo "Enter Address of $name" |
|  | read address |
|  | echo -e "$name\t$number\t$address" | cat >> $fileName |
|  | ;; |
| esac |  |
| done |  |  |

OUTPUT

#comp@comp-HP-EliteDesk-800-G2-SFF:~$ chmod u+x 1.sh

Access granted

#comp@comp-HP-EliteDesk-800-G2-SFF:~$ sh 1.sh #-e Choose one of the Following

#1. Create a New Address Book #2. View Records

#3. Insert new Record #4. Delete a Record #5. Modify a Record

#6. Exit

#1

#Enter filename #assignment1b

Enter Name Rucha

Enter Phone Number of Rucha 9623024926

Enter Address of Rucha 123 abcd, pune

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 Record
4. Delete a Record
5. Modify a Record
6. Exit

2

NAME NUMBER ADDRESS

===============================

Rucha 9623024926 123 abcd, pune

-e Choose one of the Following

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

3

Enter Name neha

Enter Phone Number of neha 123456789

Enter Address of neha aser,pune

-e Choose one of the Following

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

2

NAME NUMBER ADDRESS

===============================

Rucha 9623024926 123 abcd, pune

neha 123456789 aser,pune

-e Choose one of the Following

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

3

Enter Name vijay

Enter Phone Number of vijay 987654321

Enter Address of vijay qwert,pune

-e Choose one of the Following

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

3

Enter Name ajay

Enter Phone Number of ajay 598741236

Enter Address of ajay poiuyt,pune

-e Choose one of the Following

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

2

NAME NUMBER ADDRESS

===============================

|  |  |  |
| --- | --- | --- |
| Rucha | 9623024926 | 123 abcd, pune |
| neha | 123456789 | aser,pune |
| vijay | 987654321 | qwert,pune |
| ajay | 598741236 | poiuyt,pune |

-e Choose one of the Following

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

4

Delete record

Enter Name/Phone Number 9623024926

-e Choose one of the Following

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

2

NAME NUMBER ADDRESS

===============================

neha 123456789 aser,pune

vijay 987654321 qwert,pune

ajay 598741236 poiuyt,pune

-e Choose one of the Following

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

5

Modify record

Enter Name/Phone Number ajay

Enter Name ajay

Enter Phone Number of ajay

5698741236

Enter Address of ajay xyz.pune

-e Choose one of the Following

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

2

NAME NUMBER ADDRESS

===============================

neha 123456789 aser,pune

vijay 987654321 qwert,pune

-e ajay 5698741236xyz.pune

-e Choose one of the Following

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

6

#comp@comp-HP-EliteDesk-800-G2-SFF:~$