

Assignment No. 1

- a. **Study of Basic Linux Commands: echo, ls, read, cat, touch, test, loops, arithmetic comparison, conditional loops, grep, sed etc.**
- b. **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)
        echo "Enter filename"
        read fileName
        if [ -e $fileName ] ; then # -e to check if file exists, if exists remove the
file
            rm $fileName
        fi
        cont=1
        echo "NAME\tNUMBER\t\tADDRESS\n===== \n" | cat >>
$fileName
        while [ "$cont" -gt 0 ]
        do
            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
        done
        ;;
    2)

        cat $fileName
        ;;
    *)
        echo "Invalid option"
        ;;
    esac
done
```

```

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$number\t$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:~\$