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Experiment :

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

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```
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"

    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
        ;;
    esac
done
```

2)

```
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
```