**ASSIGNMENT NO. 1**

**SHELL PROGRAMMING**

#Program For File Operations>

op=1

flag=1

while [ $op -eq 1 ];do

echo

echo ---------------FILE OPERATIONS----------------

echo

echo --------------------MENU--------------------

echo "1. Create Or Open a File"

echo "2. Display Records"

echo "3. Insert Records"

echo "4. Search Records"

echo "5. Delete Record"

echo "6. Exit"

echo

echo Enter Your Choice:

read a

case $a in

1) #For Creation And Opening

var=1

while [ $var -eq 1 ];do

flag=0

echo

echo "1. Create New File"

echo "2. Open Existing File"

echo "Enter Your Choice: "

read op1

if [ $op1 -eq 1 ];then #Creation

echo

echo "Enter File Name with its extention: "

read fname

if ls \*$fname

then

echo "Oops!! Entered File Already Exits!!"

echo

echo "1. Continue"

echo "2. Cancel"

echo "Enter Your Choice: "

read a1

if [ $a1 -eq 1 ];then

echo "Enter Records In the File:"

echo

echo "Roll No. Name Class Result"

cat > $fname

echo

echo "File Successfully Overwritten!!"

break

fi

if [ $a1 -eq 2 ];then

continue

else

echo "Inappropriate Selection!!"

echo

continue

fi

else

echo

echo "Creating New File!!"

echo

echo "Enter Records In the File:"

echo

echo "Roll No. Name Class Result"

cat > $fname

echo

echo "File Successfully Created!!"

break

fi

fi

if [ $op1 -eq 2 ];then #Opening

echo "Enter File Name With its extension"

read fname

if ls \*$fname

then

echo

echo "File Opened Successfully!!"

echo

break

else

echo

echo "Oops!! Entered File name Doesn't Exist!!"

echo

continue

fi

else

echo "Inappropriate Selection!!"

echo

continue

fi

done ;;

2) #Display

if [ $flag -eq 0 ]; then

echo

echo "Roll No. Name Class Result"

echo

cat $fname

echo

else

echo "Create Or Open File First!!"

continue

fi

;;

3) #Insertion Of Record

if [ $flag -eq 0 ]; then

echo

echo "Enter the Student Record: "

echo "Roll No. Name Class Result "

echo

cat >> $fname

echo

else

echo "Create Or Open File First!!"

continue

fi

;;

4) #Searching Of Records

if [ $flag -eq 0 ]; then

foo=1

while [ $foo -eq 1 ];do

echo

echo "Enter the Roll No. To be Searched: "

read rn

echo

if grep -w "^$rn" $fname

then

echo

echo "Record Exists!!"

break

else

echo

echo "Oops!! Record Doesn't Exist!!"

echo

continue

fi

done

else

echo "Create Or Open File First!!"

continue

fi

;;

5) #Deletion Of Record

if [ $flag -eq 0 ]; then

var=1

while [ $var -eq 1 ];do

echo

echo "Enter the Roll No. To be Deleted: "

read rn

echo

if grep -w "^$rn" $fname

then

echo

grep -v -w "^$rn" $fname > newfile

mv newfile $fname

echo

echo "Record Successfully Deleted!!"

break

else

echo "Oops!! Record Doesn't Exist!!"

continue

fi

done

else

echo "Create Or Open File First!!"

continue

fi

;;

6) #Exit

break ;;

\*) echo "Inappropriate Selection!!..Select Appropriately!!"

continue

esac

echo "Do you want to Continue ?"

echo "Continue? (Y/N)"

read ch

if ( test $ch = 'n' )

then

break

fi

done

**OUTPUT**

it@localhost ~]$ sh fileopr.sh

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

2

Create Or Open File First!!

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

1

1. Create New File

2. Open Existing File

Enter Your Choice:

1

Enter File Name with its extention:

test.txt

test.txt

Oops!! Entered File Already Exits!!

1. Continue

2. Cancel

Enter Your Choice:

1

Enter Records In the File:

Roll No. Name Class Result

1 Naman TE 65%

2 Shubham SE 72%

3 Aniket BE 80%

File Successfully Overwritten!!

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

2

Roll No. Name Class Result

1 Naman TE 65%

2 Shubham SE 72%

3 Aniket BE 80%

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

3

Enter the Student Record:

Roll No. Name Class Result

4 Vaibhav FE 60%

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

2

Roll No. Name Class Result

1 Naman TE 65%

2 Shubham SE 72%

3 Aniket BE 80%

4 Vaibhav FE 60%

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

4

Enter the Roll No. To be Searched:

12

Oops!! Record Doesn't Exist!!

Enter the Roll No. To be Searched:

2

2 Shubham SE 72%

Record Exists!!

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

5

Enter the Roll No. To be Deleted:

3

3 Aniket BE 80%

Record Successfully Deleted!!

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

5

Enter the Roll No. To be Deleted:

6

Oops!! Record Doesn't Exist!!

Enter the Roll No. To be Deleted:

4

4 Vaibhav FE 60%

Record Successfully Deleted!!

Do you want to Continue ?

Continue? (Y/N)

y

---------------FILE OPERATIONS----------------

--------------------MENU--------------------

1. Create Or Open a File

2. Display Records

3. Insert Records

4. Search Records

5. Delete Record

6. Exit

Enter Your Choice:

6

[it@localhost ~]$