Mini-Project on PHONEBOOK IN SHELL SCRIPT

TITLE:PHONEBOOK IN SHELL SCRIPT

OBJECTIVE:

The main objective of the Operating system Project on PHONEBOOK IN SHELL SCRIPT is to manage the details of Insert contact,Delete contact,Display contact,Search contact.

SOFTWARE:

OS   **:**   LINUX

CODE:

```bash
#!/bin/bash

while [ 1 ]; do
        echo -e "\nPHONE BOOK"
        echo -e "=========\n"

        echo -e "Please select an option from the following: \
            \n\t1) Insert\n\t2) Display All\n\t3) Search\n\t4) Delete\n\t5) Exit\n"
        echo "Enter your choice: "
        read choice

        case $choice in
                1)
                        echo -e "\nINSERT:"
                        echo -n "Enter the name: "
                        read name
                        echo -n "Enter the phone number: "
                        read phone
                        echo -e "$name\t$phone" >>contacts.csv;;

                2)
                        echo -e "\nALL RECORDS:"
                        if [ -e contacts.csv ]; then
                                echo -e "Name\tPhone no."
                                cat contacts.csv
                        else
                                echo "Sorry, no records found."
                        fi;;
```

3)
```
echo -e "\nSEARCH:"
echo -n "Enter the query: "
read query
echo -n "Search by name or number (enter 1 for name, anything else for number): "

read method

retval=$(cat contacts.csv | awk -v q="$query" -v meth="$method" '{
        FS="\t"
        if( (meth == 1 &&tolower($1) == tolower(q)) ||
           (meth != 1 &&tolower($2) == tolower(q)) )
        {
                print "Name: " $1
                print "Number: " $2
        }
}')

if [ -n "$retval" ]; then
        echo -e "\n$retval\n"
else
        echo "Sorry, $query not found."
fi
echo "Press Enter to continue..."
read something;;
```

4)
```
echo -e "\nDELETE:"
echo -n "Enter the name: "
read name

if [ -e contacts_tmp.csv ]; then
        rmcontacts_tmp.csv
fi

cat contacts.csv | awk -v name="$name" '{
        if(tolower($1) != tolower(name)) {
                print $line # $line has no significance here. Simple print would work.

        }
}' > contacts_tmp.csv

mv contacts_tmp.csv contacts.csv;;
```

5)   `exit;;`

*)
                                echo "Invalid choice.";;
            esac
done

OUTPUT: -

```
student@student-Vostro-3668:~$ ls
abc        f1            IV.h                os          Public      vohra
Desktop    GlassFish_Server  M.c            pg          shortlist
Documents  iv            Music              pgrep.c     Templates
Downloads  iv.c          NetBeansProjects   Pictures    Videos
student@student-Vostro-3668:~$ cd os
student@student-Vostro-3668:~/os$ ./phonebook.sh

PHONE BOOK
==========

Please select an option from the following:
       1) Insert
       2) Display All
       3) Search
       4) Delete
       5) Exit

Enter your choice:
1

INSERT:
Enter the name: swarali
Enter the phone number: 9930200194

PHONE BOOK
==========

Please select an option from the following:
       1) Insert
       2) Display All
       3) Search
       4) Delete
       5) Exit

Enter your choice:
1

INSERT:
Enter the name: lissha
Enter the phone number: 9969812356
```

```
PHONE BOOK
==========

Please select an option from the following:
       1) Insert
       2) Display All
       3) Search
       4) Delete
       5) Exit

Enter your choice:
1

INSERT:
Enter the name: lissha
Enter the phone number: 9969812356

PHONE BOOK
==========

Please select an option from the following:
       1) Insert
       2) Display All
       3) Search
       4) Delete
       5) Exit

Enter your choice:
1

INSERT:
Enter the name: samuel
Enter the phone number: 9785745431
```

```
PHONE BOOK
==========

Please select an option from the following:
        1) Insert
        2) Display All
        3) Search
        4) Delete
        5) Exit

Enter your choice:
1

INSERT:
Enter the name: lissha
Enter the phone number: 9969812356

PHONE BOOK
==========

Please select an option from the following:
        1) Insert
        2) Display All
        3) Search
        4) Delete
        5) Exit

Enter your choice:
1

INSERT:
Enter the name: samuel
Enter the phone number: 9785745431
```

```
PHONE BOOK
==========

Please select an option from the following:
        1) Insert
        2) Display All
        3) Search
        4) Delete
        5) Exit

Enter your choice:
4

DELETE:
Enter the name: a

PHONE BOOK
==========

Please select an option from the following:
        1) Insert
        2) Display All
        3) Search
        4) Delete
        5) Exit

Enter your choice:
2

ALL RECORDS:
Name    Phone no.
b       2345768
swarali 9930200194
lissha  9969812356
samuel  9785745431

PHONE BOOK
==========

Please select an option from the following:
        1) Insert
        2) Display All
        3) Search
        4) Delete
        5) Exit

Enter your choice:
5
```

CONCLUSION:

The of this project phonebook in shell script was to build an telephone directory through with allowed to insert,delete,search,display,exit contact of individual and access the phone number.

REFERENCES:

1. GOOGLE