```bash
if [ -e ~/.phonebookDB.txt ]
#check if database file exists
then
        #Do_Nothing
        echo
else
        touch ~/.phonebookDB.txt
        chmod 777 ~/.phonebookDB.txt
#make a new database hidden file
        echo "Contacts Details: " >> ~/.phonebookDB.txt
fi

case $1 in
-i)
        echo "" >> ~/.phonebookDB.txt
        echo "-------------------------------INSERT
MODE-------------------------------------------"
        read -p "Please Insert Contact Name " Name
        grep "+$Name :" ~/.phonebookDB.txt > /dev/null
        if [ $? == 0 ]
        then
                echo "Contact already exists please delete it first "
                exit 1
        fi
        read -p "Please Insert PhoneNumber " Phone
        while  [[ ! $Phone =~ ^[0-9]+$ ]]
        do
                echo
                echo -n "Please enter digits ONLY, i.e. [0-9]"
                echo
                read -p "Please Insert PhoneNumbers " Phone
        done
        echo -n +$Name : " " >> ~/.phonebookDB.txt
        echo -n $Phone >> ~/.phonebookDB.txt
        flag=0
        while [ $flag == 0 ]
#loop while user want to add new number
        do
                read -p "Do you want to insert another number [Y/N] " answer
                if [ $answer == "Y" ]
                        then
                        read -p "Please Insert PhoneNumber " Phone
                        while [[ ! $Phone =~ ^[0-9]+$ ]]
                        do
                                echo
                                echo -n "Please enter digits ONLY, i.e. [0-9]"
                                echo
                                read -p "Please Insert PhoneNumbers "
Phone
                        done
                        read -p "Please Insert PhoneNumbers " Phone
                        echo -n " - "$Phone >> ~/.phonebookDB.txt
                elif [ $answer == "N" ]
                then
                        flag=1
                else
                        echo
                        echo -n "incorrect input Select one of these options (Y) or
(N)"
                        echo
```

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                fi
        done
        echo
        echo "----------------------------END INSERT
MODE-----------------------------------------------"
        echo "" ;;
-v)
        echo
        echo "------------------------------VIEW ALL
MODE-----------------------------------------------"
        cat ~/.phonebookDB.txt
        echo
        echo "------------------------------END VIEW ALL
MODE-------------------------------------------------";;
-s)
        echo
        echo "-------------------------------SEARCH
MODE--------------------------------------------"
        echo
        read -p "Please Insert Contact Name to search for " sName
        grep "+$sName :" ~/.phonebookDB.txt
        if [ $? != 0 ]
        then
                echo "Contact Not Found"
        fi
        echo
        echo "--------------------------------END SEARCH
MODE--------------------------------------------------";;
-e)
        echo
        echo "--------------------------------DELETE ALL
MODE-----------------------------------------"
        echo "Contacts Details: " > ~/.phonebookDB.txt
        echo "" >> ~/.phonebookDB.txt
        echo
        echo "--------------------------------END DELETE ALL
MODE----------------------------------------------";;
-d)
        echo
        echo "------------------------------DELETE
MODE-----------------------------------------"
        echo
        read -p "Please Insert Contact Name to delete " dName
        grep "+$dName :" ~/.phonebookDB.txt
        if [ $? != 0 ]
        then
                echo "Contact Not Found"
        fi
        sed -i "/+$dName :/c\\" ~/.phonebookDB.txt
        echo
        echo "-------------------------------END DELETE
MODE-------------------------------------------------";;
*)   #information like man pages :)
        echo
        echo "NAME"
        echo "        phonebook.sh - PhoneBook Application"
        echo
        echo "SYNOPSIS"
        echo "        phonebook.sh [OPTIONS]..."
        echo
        echo "DESCRIPTION"
        echo "        Manage contacts with the ability to display, add and delete one
```

```
or more contact."
        echo
        echo "        -i"
        echo "         Insert a new contact name and number. "
        echo
        echo "        -v"
        echo "         View all saved contacts details."
        echo
        echo "        -s"
        echo "         Search by contact name."
        echo
        echo "        -e"
        echo "         Delete all Phonebook records."
        echo
        echo "        -d"
        echo "         Delete only one contact name."
        echo
        echo "AUTHOR"
        echo "        Developed by: Ahmed Zoher (ahmed.o.zoher@gmail.com)"
        echo ;;
esac
```