```
#! /bin/bash
```

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# Global Variables
### name of database file
DB file=.phonebook db
# utilites
function isContactExist() {
     #statements
     contactInDB=$(grep "$1.*" $DB_file)
     contactInDB="$( echo $contactInDB | cut -d: -f1 )"
     if [[ $contactInDB = $1 ]]; then
          return 1
     else
          return 0
     fi
}
### check if database file not exist, ask user to create one
function checkDataBase() {
     if [[ ! -f "$DB file" ]]; then
          echo "WARNING!!!
          echo "Data base file does not exist"
          read -p "Create Database file now[y/n]?" check
          clear
          else
                echo "Sorry cannot start without database file."
                exit
          fi
     fi
}
# Functions
### Insert new contact name and number
function insertName () {
     read -p "Enter contact name: " newName
     read -p "Enter contact number: " newNumber
     if [[ $newName =~ ^[+-]?[0-9]+$ ]]; then
          #statements
          echo "Invalid Name for new contact"
     else
          isContactExist $newName
          temp=$?
          if [[ $temp = 1 ]]
                          ; then
                echo "$newName is already exist in phonebook."
          elif [[ $newNumber =~ ^[+-]?[0-9]+$ ]]; then
                echo "$newName:$newNumber" >> $DB file
          else
```

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echo "Invalid number."
               fi
       fi
}
### View all saved contacts details
function viewAllContact() {
       data="$(cat $DB_file)"
       #echo "${data}"
IFS=$'\n'
       for line in ${data}; do
              -f2)"
       done
       IFS=$' '
}
### Search by contact name
function searchByContact() {
       #statements
       read -p "Enter contact name to find: " nameToFind
       if [[ $nameToFind =~ ^[+-]?[0-9]+$ ]]; then
               echo "Invalid Name for new contact"
       else
               currentName=0
               currentName="$(grep "$nameToFind.*" $DB file)"
               IFS=$'\n'
               for line in ${currentName}; do
                      cut -d: -f2 )"
               done
               IFS=$''
       fi
}
### Delete all records
function deleteAllRecords() {
       #statements
       echo "You are about to remove all records from phonebook."
echo "This operation cannot undo it."
       read -p "Do you want to continue[y/n]?" input
       if [[ $input = 'y' ]]; then
               echo > $DB_file
               echo "3ala el donya el salankaty XD."
       else
              echo "yb2a nbtl l3b b2a X("
       fi
}
### Delete onle one contact name
function deleteContactByName() {
       read -p "Enter contact name to remove: " nameToFind
```

checkDataBase

```
if [[ $# == 0 ]];then
       echo "choose one of the following options:"
      elif [[ $# == 1 ]];then
       if [[ $1 = -i ]];then
              insertName
       elif [[ $1 = -v ]];then
              viewAllContact
       elif [[ $1 = -s ]];then
              searchByContact
       elif [[ $1 = -e ]];then
              deleteAllRecords
       elif [[ $1 = -d ]];then
              deleteContactByName
       else
              echo "invalid option "
       fi
elif [[ $# > 1 ]];then
       echo "please enter one option only"
fi
```