Assignment No : 1B

Roll No:33224   Subject:OSL

Batch:L-10

Code:

```bash
#!/bin/bash
fileExists(){
  if [ ! -e Address_Book.txt ];
  then
    return 1
  fi
}
createAddressBook(){
  if [ ! -e Address_Book.txt ];
  then
    touch Address_Book.txt
  fi
  echo "| Name | Email | Phone Number | Address |" > Address_Book.txt
}
viewAddressBook(){
  if [ ! -e Address_Book.txt ];
  then
    echo "Address Book is Not Created. First Create Address Book"
    return
  fi
 if [ -s Address_Book.txt ];
```

```bash
    then

        cat Address_Book.txt

    else

        echo "Address Book is Empty"

    fi

}

insertRecord(){

    if [ ! -e Address_Book.txt ];

    then

        echo "Address Book is Not Created. First Create Address Book"

        return

    fi

    read -p "Enter Name: " name

    read -p "Enter Email: " email

    read -p "Enter Phone Number: " phone

    read -p "Enter Address: " address

    echo "| $name | $email | $phone | $address |" >> Address_Book.txt

}

deleteRecord(){

    if [ ! -e Address_Book.txt ];

    then

        echo "Address Book is Not Created. First Create Address Book"

        return

    fi


    read -p "Enter Name: " name

    if [ -z "$(grep -i $name Address_Book.txt)" ];

    then

        echo "Record Not Found"
```

```bash
    else

        sed -i "/$name/d" Address_Book.txt

    fi

}

searchRecord(){

    if [ ! -e Address_Book.txt ];

    then

        echo "Address Book is Not Created. First Create Address Book"

        return

    fi


    read -p "Enter Name: " name

    if [ -z "$(grep -i $name Address_Book.txt)" ];

    then

        echo "Record Not Found"

    else

        grep -i $name Address_Book.txt

    fi

}

updateRecord(){

    if [ ! -e Address_Book.txt ];

    then

        echo "Address Book is Not Created. First Create Address Book"

        return

    fi


    read -p "Enter Name: " name


    if [ -z "$(grep -i $name Address_Book.txt)" ];
```

```bash
  then
    echo "Record Not Found"
    return
  fi

  sed -i "/$name/d" Address_Book.txt
  read -p "Enter Email: " email
  read -p "Enter Phone Number: " phone
  read -p "Enter Address: " address
  echo "| $name | $email | $phone | $address |" >> Address_Book.txt
}
main(){
  while true;
  do
    echo -e "\nWelcome to Address Book\n"
    echo "1. Create Address Book"
    echo "2. View Address Book"
    echo "3. Insert Record"
    echo "4. Delete Record"
    echo "5. Search Record"
    echo "6. Update Record"
    echo -e "7. Exit\n"

    read -p "Enter Choice: " choice

    case $choice in
      1)
      createAddressBook
      ;;
```

```
        2)
        viewAddressBook
        ;;
        3)
        insertRecord
        ;;
        4)
        deleteRecord
        ;;
        5)
        searchRecord
        ;;
        6)
        updateRecord
        ;;
        7)
        exit
        ;;
        *)
        echo "Invalid Choice"
        ;;
      esac
    done
}

Main
```

Output:

```
hp@RAJVARDHAN6403 MINGW64 ~/Desktop
$ ls
Cb/  demo.sh*  desktop.ini  try/

hp@RAJVARDHAN6403 MINGW64 ~/Desktop
$ chmod +x demo.sh

hp@RAJVARDHAN6403 MINGW64 ~/Desktop
$ ls -s
total 5
0 Cb/  4 demo.sh*  1 desktop.ini  0 try/

hp@RAJVARDHAN6403 MINGW64 ~/Desktop
$ ./demo.sh

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 1

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 3
Enter Name: raj
Enter Email: raj@123
Enter Phone Number: 9789
Enter Address: pune

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 3
Enter Name: dev
Enter Email: dev@678
Enter Phone Number: 5674
Enter Address: thane

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit
```

```
Enter Choice: 2
| Name | Email | Phone Number | Address |
| raj | raj@123 | 9789 | pune |
| dev | dev@678 | 5674 | thane |

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 5
Enter Name: dev
| dev | dev@678 | 5674 | thane |

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 6
Enter Name: dev
Enter Email: dev@678
Enter Phone Number: 5674
Enter Address: barshi

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 2
| Name | Email | Phone Number | Address |
| raj | raj@123 | 9789 | pune |
| dev | dev@678 | 5674 | barshi |

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 4
Enter Name: dev

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
```

```
7. Exit

Enter Choice: 2
| Name | Email | Phone Number | Address |
| raj | raj@123 | 9789 | pune |

Welcome to Address Book

1. Create Address Book
2. View Address Book
3. Insert Record
4. Delete Record
5. Search Record
6. Update Record
7. Exit

Enter Choice: 7

hp@RAJVARDHAN6403 MINGW64 ~/Desktop
$
```