

TE IT

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Shell programming Write a program to implement an address book with options given below: a) Create address book. b) View address book. c) Insert a record. d) Delete a record. e) Modify a record. f) Exit.

```
createAddressBook()
{
    echo
    read -p "Enter no. of records: " n

    for((i=0; i<n; i++))
    do
        echo
        echo "Enter ID"
        read ID[i]
        echo "Enter name"
        read name[i]
        echo "Enter address"
        read address[i]
        echo "Enter phone_no"
        read phone_no[i]
    done
}

displayRecords()
{
    echo
    echo "ID    NAME    ADDRESS    PHONE_NO"
    for((i=0; i<n; i++))
    do
        echo "${ID[i]}    ${name[i]}    ${address[i]}    ${phone_no[i]}"
    done
}

insertRecord()
{
```

```

echo
echo "Enter ID to insert"
read ins_id

for((i=0; i<n; i++))
do
    if test "$ins_id" == "${ID[i]}"
    then
        echo
        echo "ID already exists"
        dup_id=1
    fi
done

if test "$dup_id" != 1
then
    ID[n]=$ins_id
    echo "Enter name"
    read name[n]
    echo "Enter address"
    read address[n]
    echo "Enter phone_no"
    read phone_no[n]
    n=$((n+1))
fi
}

deleteRecord()
{
    echo
    echo "Enter index of record to delete"
    read del_pos

    for((i=del_pos; i<n-1; i++))
    do
        ID[i]={ID[i+1]}
        name[i]={name[i+1]}
        address[i]={address[i+1]}
        phone_no[i]={phone_no[i+1]}
    done
    n=$((n-1))
}

```

```
modifyRecord()
{
    echo
    echo "Enter ID to modify"
    read mod_id
    is_mod=0

    for((i=0; i<n; i++))
    do
        if test "$mod_id" == "${ID[i]}"
        then
            echo "Enter name"
            read name[i]
            echo "Enter address"
            read address[i]
            echo "Enter phone_no"
            read phone_no[i]
            is_mod=1
        fi
    done

    if test "$is_mod" == 0
    then
        echo
        echo "ID does not exist"
    fi
}
```

```
exitFunction()
{
    echo
    echo "EXITING"
    echo
    break
}
```

createAddressBook

```
while :
do
```

```
echo
echo "ADDRESS BOOK"
echo "1. View"
echo "2. Insert"
echo "3. Delete"
echo "4. Modify"
echo "5. Exit"
echo
```

```
echo "Enter choice"
read choice
```

```
if test "$choice" == 1
then
    displayRecords
fi
```

```
if test "$choice" == 2
then
    insertRecord
fi
```

```
if test "$choice" == 3
then
    deleteRecord
fi
```

```
if test "$choice" == 4
then
    modifyRecord
fi
```

```
if test "$choice" == 5
then
    exitFunction
fi
```

```
done
```

## Output:

Enter no. of records: 2

Enter ID

1

Enter name

amey

Enter address

pune

Enter phone\_no

9832456824

Enter ID

2

Enter name

aayish

Enter address

pune

Enter phone\_no

9983452819

ADDRESS BOOK

1. View

2. Insert

3. Delete

4. Modify

5. Exit

Enter choice

1

ID	NAME	ADDRESS	PHONE_NO
1	amey	pune	9832456824
2	yatish	pune	9983452819

ADDRESS BOOK

1. View

2. Insert

3. Delete

4. Modify

5. Exit

Enter choice

2

Enter ID to insert

3

Enter name

rahul

Enter address

nashik

Enter phone\_no

9867342105

ADDRESS BOOK

1. View

2. Insert

3. Delete

4. Modify

5. Exit

Enter choice

1

ID	NAME	ADDRESS	PHONE_NO
1	amey	pune	9832456824
2	yatish	pune	9983452819
3	rahul	nashik	9867342105

ADDRESS BOOK

1. View

2. Insert

3. Delete

4. Modify

5. Exit

Enter choice

3

Enter index of record to delete

1

ADDRESS BOOK

- 1. View
- 2. Insert
- 3. Delete
- 4. Modify
- 5. Exit

Enter choice

1

ID	NAME	ADDRESS	PHONE_NO
1	amey	pune	9832456824
3	rahul	nashik	9867342105

ADDRESS BOOK

- 1. View
- 2. Insert
- 3. Delete
- 4. Modify
- 5. Exit

Enter choice

4

Enter ID to modify

3

Enter name

rahul

Enter address

mumbai

Enter phone\_no

9783219842

ADDRESS BOOK

- 1. View
- 2. Insert
- 3. Delete
- 4. Modify
- 5. Exit

Enter choice

1

ID	NAME	ADDRESS	PHONE_NO
1	amey	pune	9832456824
3	rahul	mumbai	9783219842

ADDRESS BOOK

- 1. View
- 2. Insert
- 3. Delete
- 4. Modify
- 5. Exit

Enter choice  
5

EXITING