

```
Activities Terminal ▾ Dec 4 5:47 PM mini-project
*****
Welcome User!
This is AIT'S Address Book Application!
-----

Do You want to login as admin?(Y/N) : n
logged in as user!!
Please enter your FILE NAME ('.txt' file extension will be added): save
'save.txt' has been read. 4 records have been added to the database.
-----

Usage:
    1: Print information about a record using the name as the key.
    2: Print information about a record using the phone number as the key.
    3: Print all information in the database.
    4: Quit the program.

What would you like to do?
2
-----
Print Record(s) with the same phone number
Please enter the contact's TELEPHONE NUMBER: 6377868494
-----
No records of 6377868494 found.
-----

Usage:
    1: Print information about a record using the name as the key.
    2: Print information about a record using the phone number as the key.
    3: Print all information in the database.
    4: Quit the program.

What would you like to do?
1
-----
Print Record(s) with the same name
Please enter the person's NAME: sachin
-----
=====
Record #1 of:
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
1 records of sachin printed.
-----

Usage:
    1: Print information about a record using the name as the key.
    2: Print information about a record using the phone number as the key.
    3: Print all information in the database.
    4: Quit the program.

What would you like to do?

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3: Print all information in the database.
4: Quit the program.
What would you like to do?
2
-----
Print Record(s) with the same phone number
Please enter the contact's TELEPHONE NUMBER: 3
-----
No records of 3 found.
-----
Usage:
    1: Print information about a record using the name as the key.
    2: Print information about a record using the phone number as the key.
    3: Print all information in the database.
    4: Quit the program.
What would you like to do?
3
-----
Printing Records...
-----
=====
Record #1
Name: dsa
Address: lkjfds
nhuio
kjg
Year of Birth: 458796
Telephone Number: 587412369
=====
Record #2
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #3
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
4 Records printed.
-----
Usage:
    1: Print information about a record using the name as the key.
    2: Print information about a record using the phone number as the key.
    3: Print all information in the database.
    4: Quit the program.
What would you like to do?

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```
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1: Print information about a record using the name as the key.
2: Print information about a record using the phone number as the key.
3: Print all information in the database.
4: Quit the program.
What would you like to do?
3
-----
Printing Records...
-----
=====
Record #1
Name: dsa
Address: lkjfds
nhuio
kjpg
Year of Birth: 458796
Telephone Number: 587412369
=====
Record #2
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #3
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
4 Records printed.
-----
Usage:
1: Print information about a record using the name as the key.
2: Print information about a record using the phone number as the key.
3: Print all information in the database.
4: Quit the program.
What would you like to do?
4
4 records have been recorded to file: save.txt
-----
0 records removed from the memory.
-----
Application terminated
*****
Process returned 0 (0x0)   execution time : 217.201 s
Press ENTER to continue.

```

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Activities Terminal ▾ Dec 4 5:46 PM mini-project
*****
Welcome User!
This is AIT'S Address Book Application!
-----

Do You want to login as admin?(Y/N) : y
Enter username : sachin
Enter Password : sachin
Welcome sachin, logged in as admin!!
Please enter your FILE NAME ('.txt' file extension will be added): save
'save.txt' has been read. 4 records have been added to the database.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
   10: Quit the program.

What would you like to do?
6
-----
Printing Records...
-----
=====
Record #1
Name: dsa
Address: lkjfds
nhuio
kjpg
Year of Birth: 458796
Telephone Number: 587412369
=====
Record #2
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #3
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
4 Records printed.
-----
```

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Activities Terminal ▾ Dec 4 5:58 PM mini-project
*****
Welcome User!
This is AIT'S Address Book Application!
-----

Do You want to login as admin?(Y/N) : y
Enter username : sachin
Enter Password : sachin
Welcome sachin, logged in as admin!!
Please enter your FILE NAME ('.txt' file extension will be added): save
'save.txt' has been read. 4 records have been added to the database.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
   10: Quit the program.

What would you like to do?
1
-----
Add a new Record
Please enter the person's NAME: rahul
Please enter the person's ADDRESS (Enter '$' when you're finished):
jaipur
rajasthan
india $
Please enter the person's BIRTH YEAR: 451990

Please enter the contact's TELEPHONE NUMBER: 4569871259
-----
Record has been added.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
   10: Quit the program.

What would you like to do?
6
-----
Printing Records...
-----
=====
Record #1
```



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Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
=====
Record #5
Name: rahul
Address: jaipur
rajasthan
india
Year of Birth: 451990
Telephone Number: 4569871259
5 Records printed.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
   10: Quit the program.
What would you like to do?
2
-----
Print Record(s) with the name
Please enter the person's NAME: rahul
-----
=====
Record #1 of:
Name: rahul
Address: jaipur
rajasthan
india
Year of Birth: 451990
Telephone Number: 4569871259
1 records of rahul printed.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone nymber as the key.
    9: Reverse the order of all existing records from the database.
   10: Quit the program.
What would you like to do?

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10: Quit the program.
What would you like to do?
2
-----
Print Record(s) with the name
Please enter the person's NAME: rahul
-----
=====
Record #1 of:
Name: rahul
Address: jaipur
rajasthan
india
Year of Birth: 451990
Telephone Number: 4569871259
1 records of rahul printed.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone nymber as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
3
-----
Print Record(s) with the same phone number
Please enter the contact's TELEPHONE NUMBER: 63258964
-----
=====
Record #1 of:
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
1 records of 63258964 printed.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone nymber as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?

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7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone number as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
3
-----
Print Record(s) with the same phone number
Please enter the contact's TELEPHONE NUMBER: 63258964
-----
=====
Record #1 of:
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
1 records of 63258964 printed.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone number as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
4
-----
Modify Record(s) with the same name
Please enter the person's NAME: rahul
Please enter the person's ADDRESS (Enter '$' when you're finished):
ajmer
rajasthan $
Please enter the contact's TELEPHONE NUMBER: 45879653
-----
1 records of rahul records_modified.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone number as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?

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```
Activities Terminal ▾ Dec 4 5:59 PM mini-project
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
6
-----
Printing Records...
-----
=====
Record #1
Name: dsa
Address: lkjfds
nhuio
kjpg
Year of Birth: 458796
Telephone Number: 587412369
=====
Record #2
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #3
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
=====
Record #5
Name: rahul
Address: ajmer
rajasthan
Year of Birth: 451990
Telephone Number: 45879653
5 Records printed.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone nymber as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?

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9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
7
-----
Delete Record(s) with the same name
Please enter the person's NAME: rahul
-----
1 records of rahul records_deleted.
-----
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
    10: Quit the program.
What would you like to do?
6
-----
Printing Records...
-----
=====
Record #1
Name: dsa
Address: lkjfds
nhuio
kjjg
Year of Birth: 458796
Telephone Number: 587412369
=====
Record #2
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #3
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #4
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
4 Records printed.
-----
Usage:
    1: Add a new record into the database.
```

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mini-project
8: Delete an existing record from the database using phone number as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
9
-----
Reversing the order of all the Records...
-----
All Records have been reversed.
-----
Usage:
1: Add a new record into the database.
2: Print information about a record using the name as the key.
3: Print information about a record using the phone number as the key.
4: Modify a record in the database using the name as the key.
5: Modify a record in the database using the phone number as the key.
6: Print all information in the database.
7: Delete an existing record from the database using name as the key.
8: Delete an existing record from the database using phone number as the key.
9: Reverse the order of all existing records from the database.
10: Quit the program.
What would you like to do?
6
-----
Printing Records...
-----
=====
Record #1
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
=====
Record #2
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #3
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #4
Name: dsa
Address: lkjfds
nhuio
kjjg
Year of Birth: 458796
Telephone Number: 587412369
4 Records printed.
-----
Usage:
1: Add a new record into the database.
```

```
Activities Terminal ▾ Dec 4 6:00 PM
mini-project
Printing Records...
=====
Record #1
Name: sachin
Address: sdfghjkl
Year of Birth: 6112000
Telephone Number: 63258964
=====
Record #2
Name: sachin23
Address: 45 sachin jaipur
Year of Birth: 61112000
Telephone Number: 637728684
=====
Record #3
Name: sach
Address: in jaipur
Year of Birth: 61000
Telephone Number: 678684
=====
Record #4
Name: dsa
Address: lkjfds
nhiuio
kjd
Year of Birth: 458796
Telephone Number: 587412369
4 Records printed.
=====
Usage:
    1: Add a new record into the database.
    2: Print information about a record using the name as the key.
    3: Print information about a record using the phone number as the key.
    4: Modify a record in the database using the name as the key.
    5: Modify a record in the database using the phone number as the key.
    6: Print all information in the database.
    7: Delete an existing record from the database using name as the key.
    8: Delete an existing record from the database using phone number as the key.
    9: Reverse the order of all existing records from the database.
    10: Quit the program.
What would you like to do?
10
4 records have been recorded to file: save.txt
=====
0 records removed from the memory.
=====
Application terminated
*****
Process returned 0 (0x0)   execution time : 194.159 s
Press ENTER to continue.
█
```