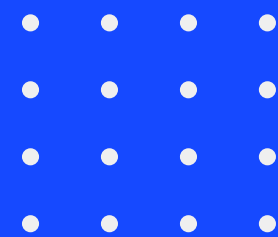


Contact Management System



Problem Statement

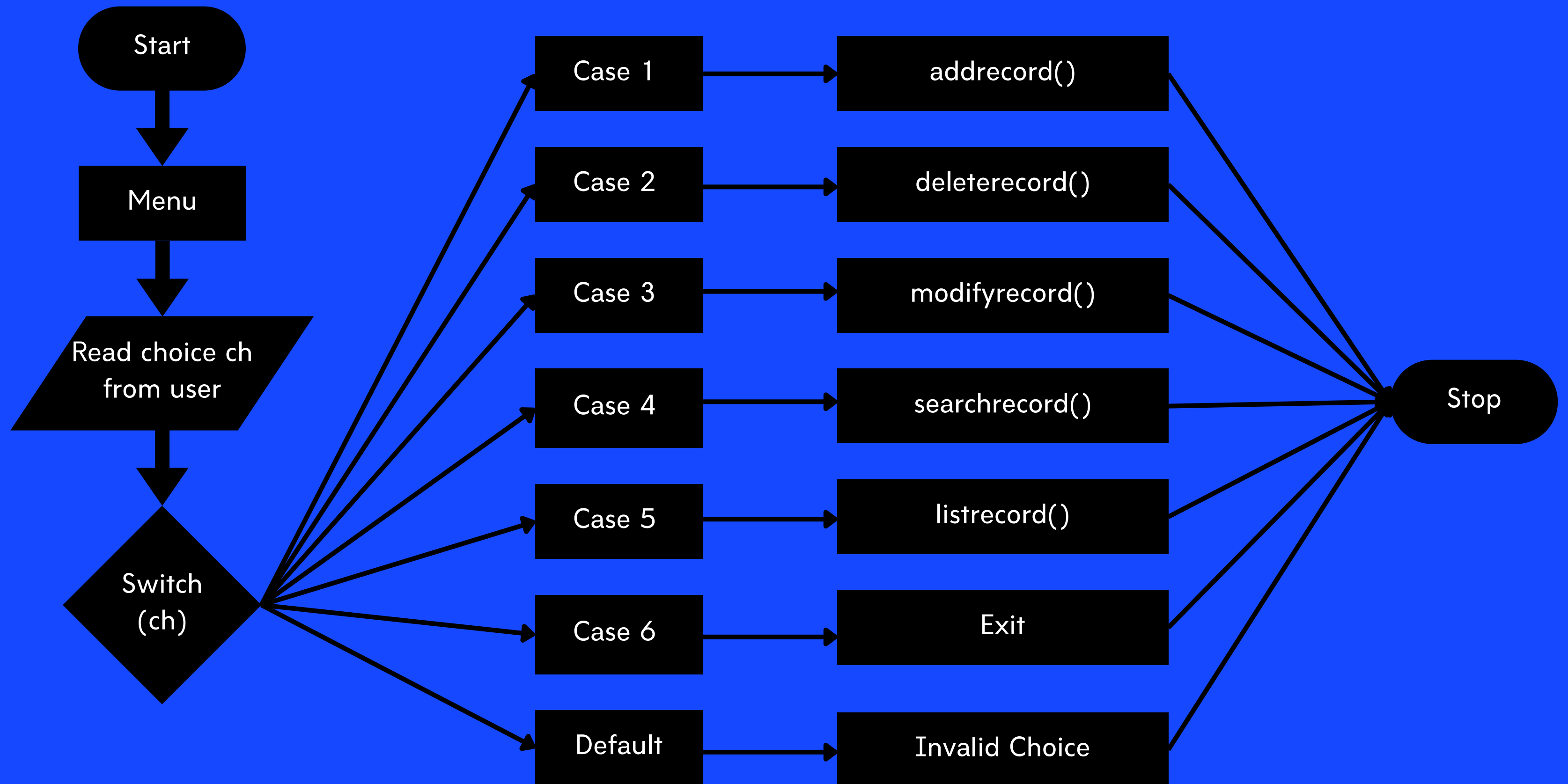
Phone Book Application

Development of phone book application using Data Structures
and File Handling in C Programming Language

Operations

- Insertion
- Deletion
- Modification
- Searching
- Listing

Flowchart for Main Menu



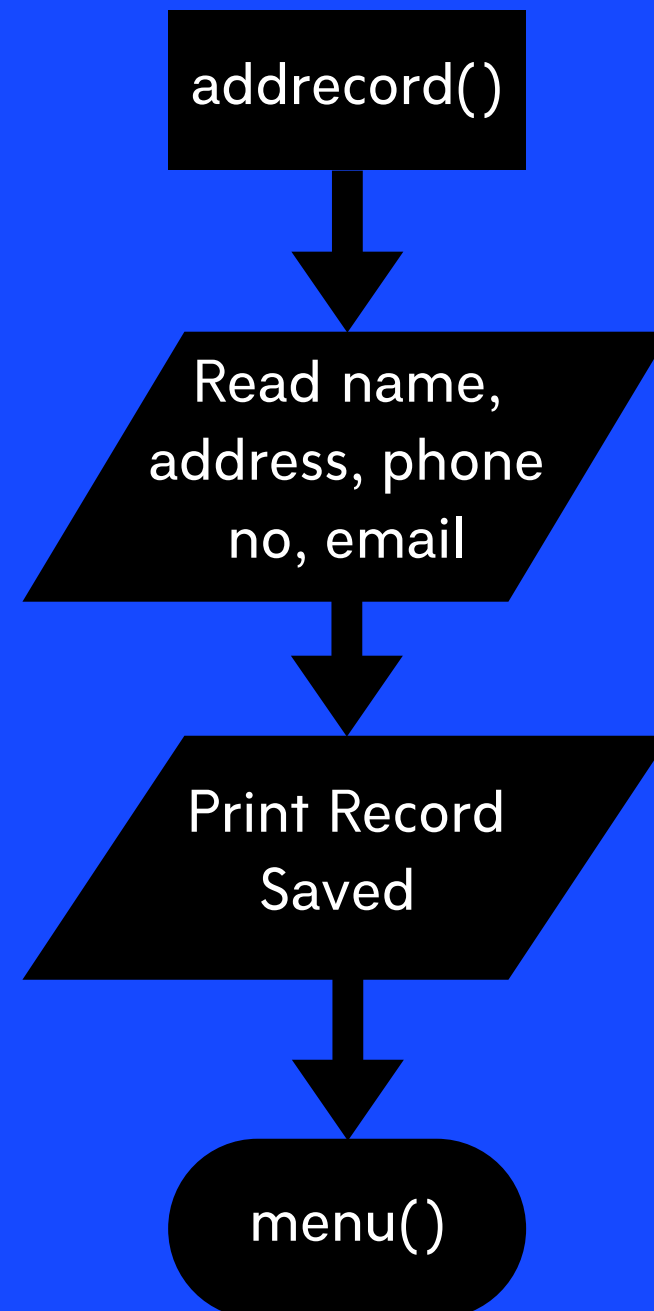
Working of Main Menu Function

```
cd "/Users/harshpruthi/  
harshpruthi@Harshs-MacE  
pruthi/Desktop/Phone_Bo  
Phone Book Mini-Project  
Menu  
1.Add Contact  
2.Delete Contact  
3.Modify Contact  
4.Search Contact  
5.List Contact  
6.Exit  
Enter choice:
```

A main menu void-type function containing the contents of main menu was constructed and function call was made under `int main()`

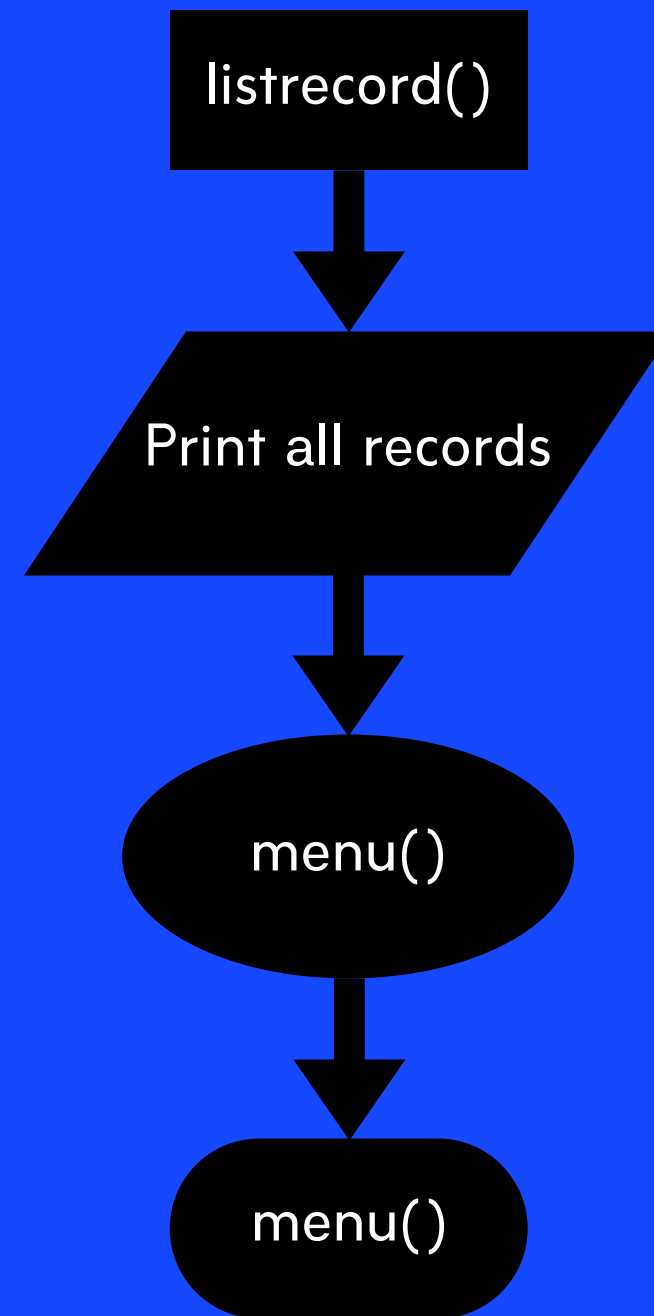
A user could enter the appropriate choice of operation to be performed and using switch case as visualised, function call will be made and will redirect to the appropriate functions

Working of Insertion Function



```
cd /Users/harshpruthi/Desktop/Phone_Book_App
harshpruthi@Harshs-MacBook-Air-2 Phone_Book_Ap
pruthi/Desktop/Phone_Book_Application/"main
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Harsh
Enter the address:B1
Enter 10 digit mobile number:1234567890
Enter E-mail:
h@gmail.com
Record Saved
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Sneha
Enter the address:A1
Enter 10 digit mobile number:1234567890
Contact already exists
Enter 10 digit mobile number:0987654321
Enter E-mail:
s@gmail.com
Record Saved
Phone Book Mini-Project Program using C
```

Working of Listing Records



Phone Book Mini-Project Program using C

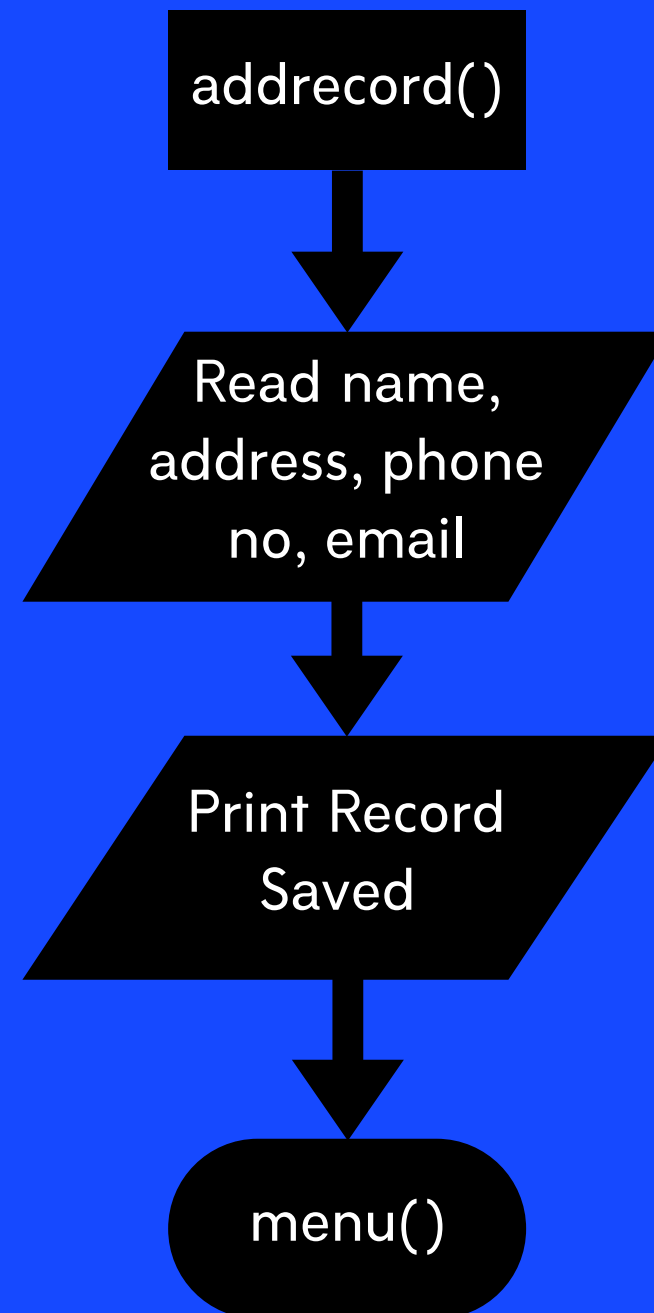
Menu

1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:5

Phonebook Record

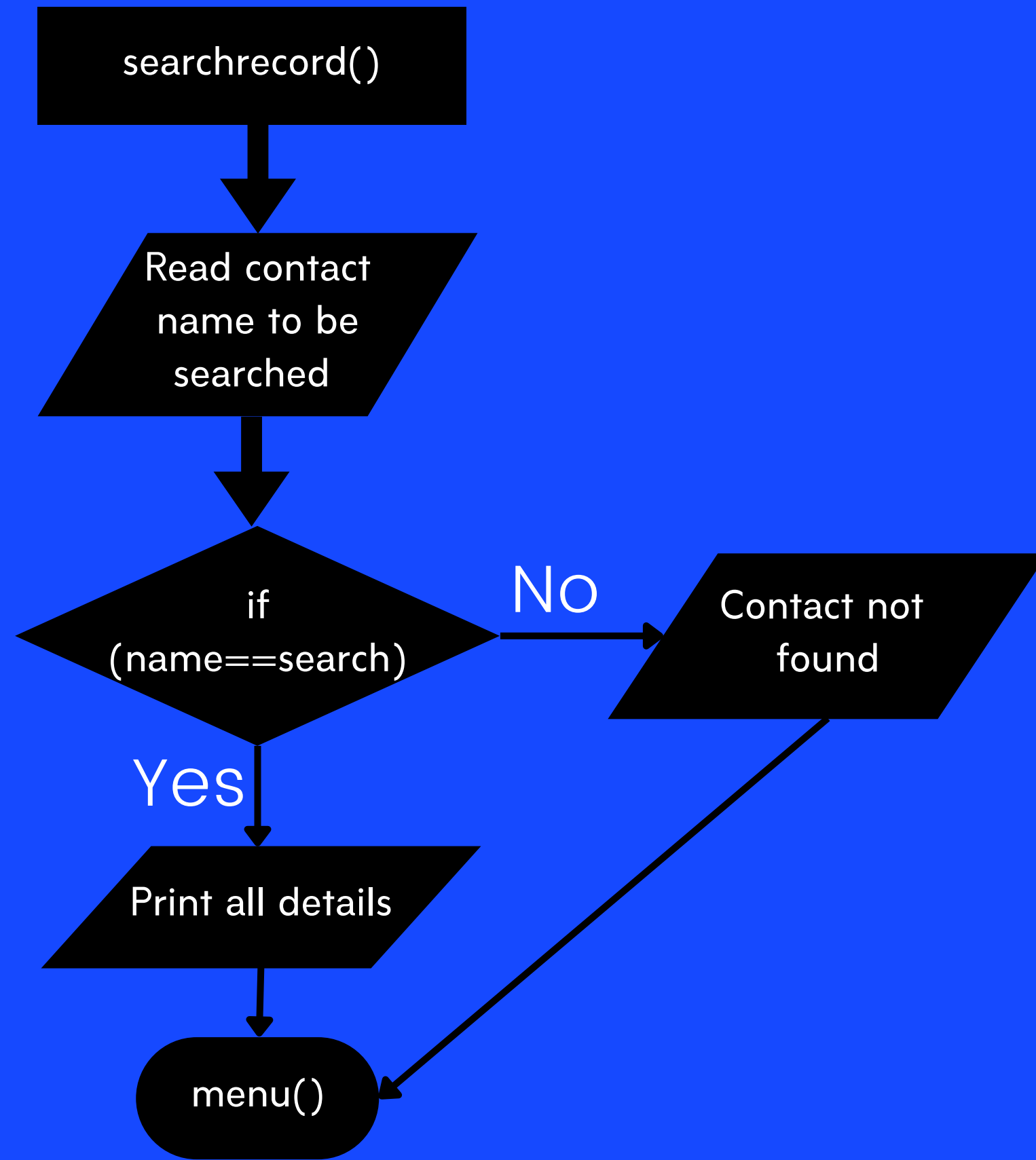
Name	Address	Phone Number	Mail_Id
Harsh	B1	1234567890	h@gmail.com
Sneha	A1	0987654321	s@gmail.com

Working of Insertion Function



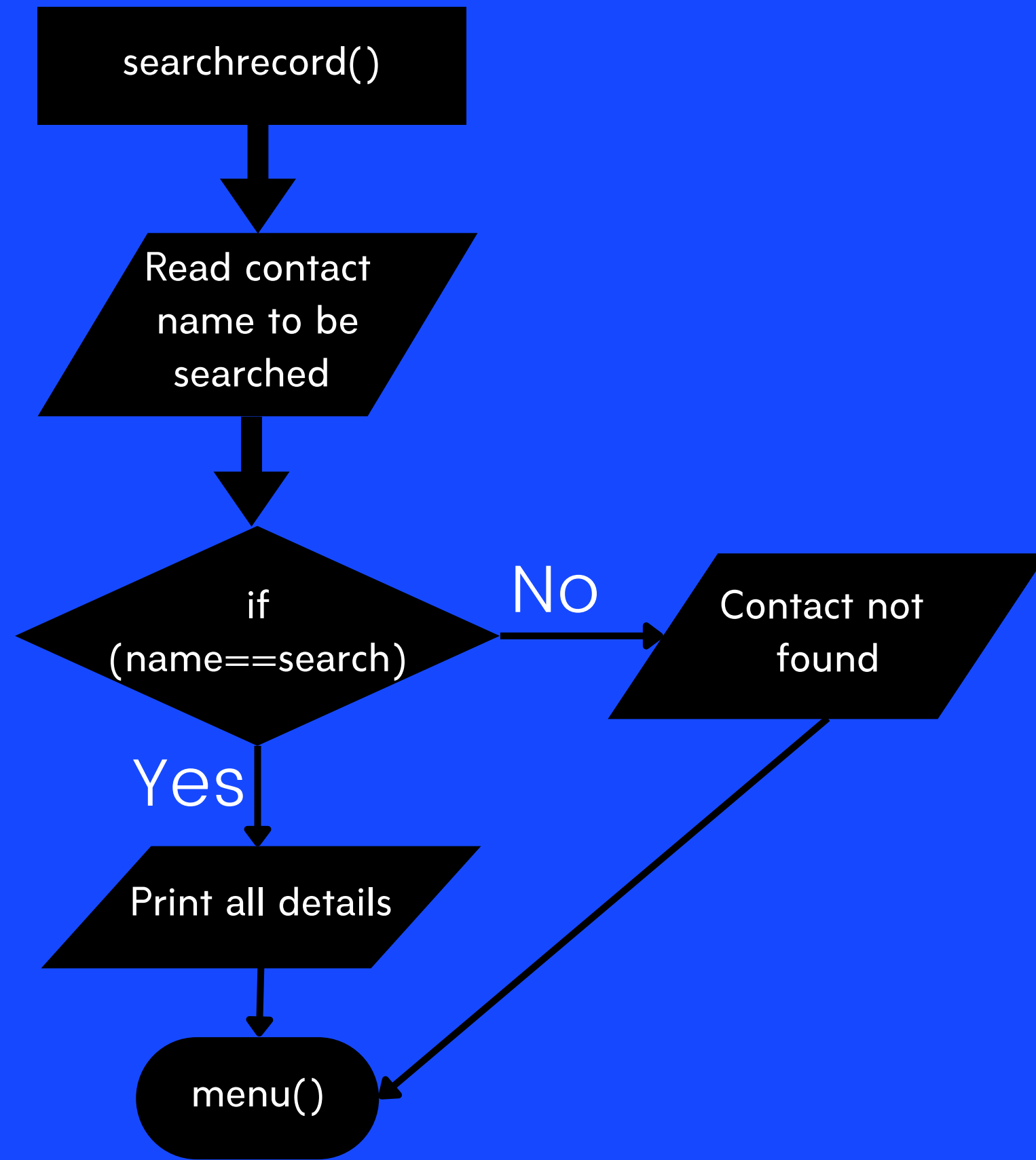
```
cd /Users/harshpruthi/Desktop/Phone_Book_App
harshpruthi@Harshs-MacBook-Air-2 Phone_Book_Ap
pruthi/Desktop/Phone_Book_Application/"main
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Harsh
Enter the address:B1
Enter 10 digit mobile number:1234567890
Enter E-mail:
h@gmail.com
Record Saved
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Sneha
Enter the address:A1
Enter 10 digit mobile number:1234567890
Contact already exists
Enter 10 digit mobile number:0987654321
Enter E-mail:
s@gmail.com
Record Saved
Phone Book Mini-Project Program using C
```


Working of Searching Function



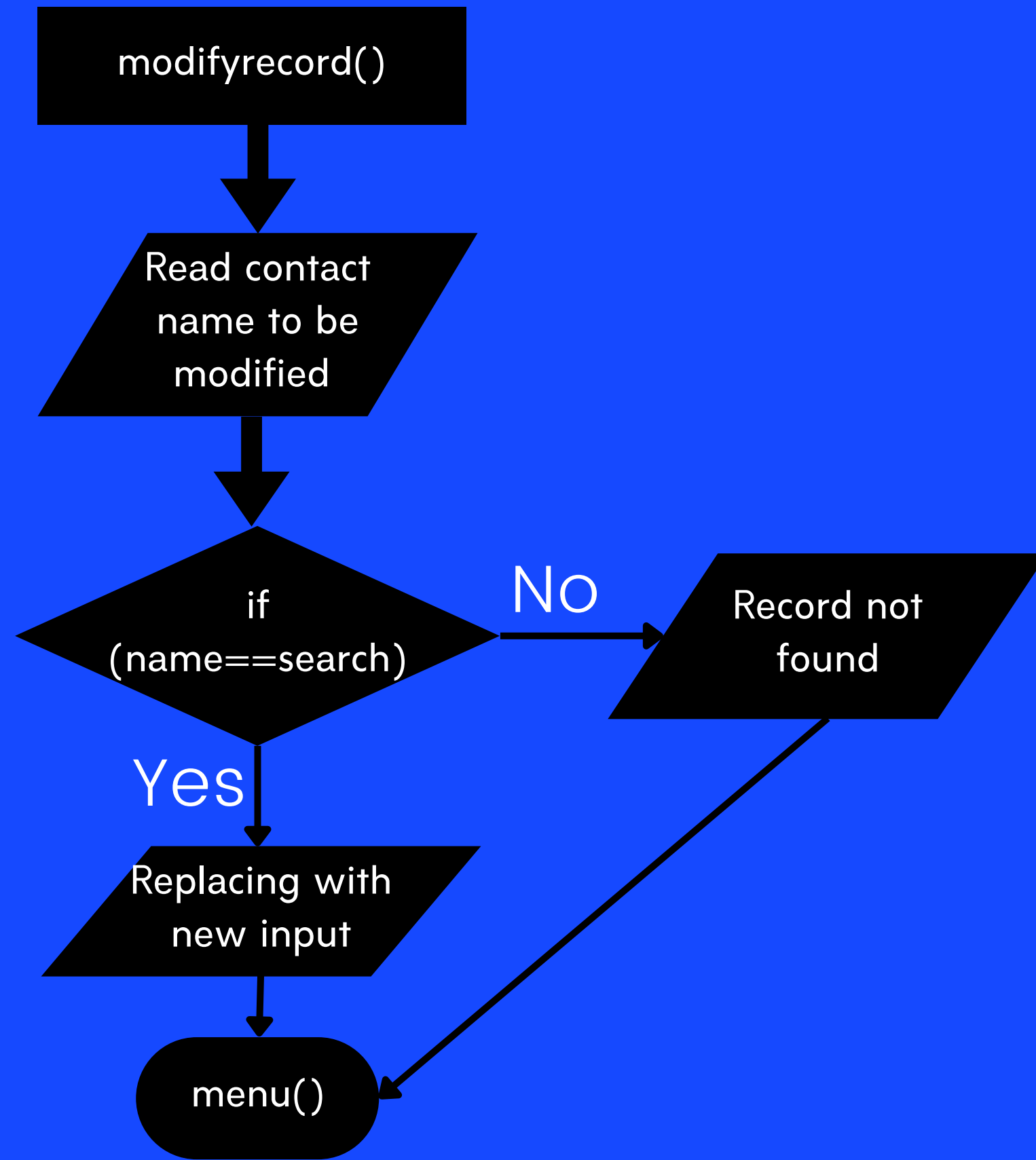
```
cd /Users/harshpruthi/Desktop/Phone_Book_App
harshpruthi@Harshs-MacBook-Air-2 Phone_Book_Ap
pruthi/Desktop/Phone_Book_Application/"main
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Harsh
Enter the address:B1
Enter 10 digit mobile number:1234567890
Enter E-mail:
h@gmail.com
Record Saved
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Sneha
Enter the address:A1
Enter 10 digit mobile number:1234567890
Contact already exists
Enter 10 digit mobile number:0987654321
Enter E-mail:
s@gmail.com
Record Saved
Phone Book Mini-Project Program using C
```

Working of Searching Function



```
cd /Users/harshpruthi/Desktop/Phone_Book_App
harshpruthi@Harshs-MacBook-Air-2 Phone_Book_Ap
pruthi/Desktop/Phone_Book_Application/"main
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Harsh
Enter the address:B1
Enter 10 digit mobile number:1234567890
Enter E-mail:
h@gmail.com
Record Saved
Phone Book Mini-Project Program using C
Menu
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit
Enter choice:1
Enter name:
Sneha
Enter the address:A1
Enter 10 digit mobile number:1234567890
Contact already exists
Enter 10 digit mobile number:0987654321
Enter E-mail:
s@gmail.com
Record Saved
Phone Book Mini-Project Program using C
```

Working of Modifying Function



Phone Book Mini-Project Program using C

Menu

1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit

Enter choice:3

Enter contact name to be modified :Sneha

Enter name:Anmol

Enter the address: Gurugram

Enter 10 digit phone no:1231231230

Enter e-mail ID: a@gmail.com

Contact is modifiedPhone Book Mini-Project Program using C

Menu

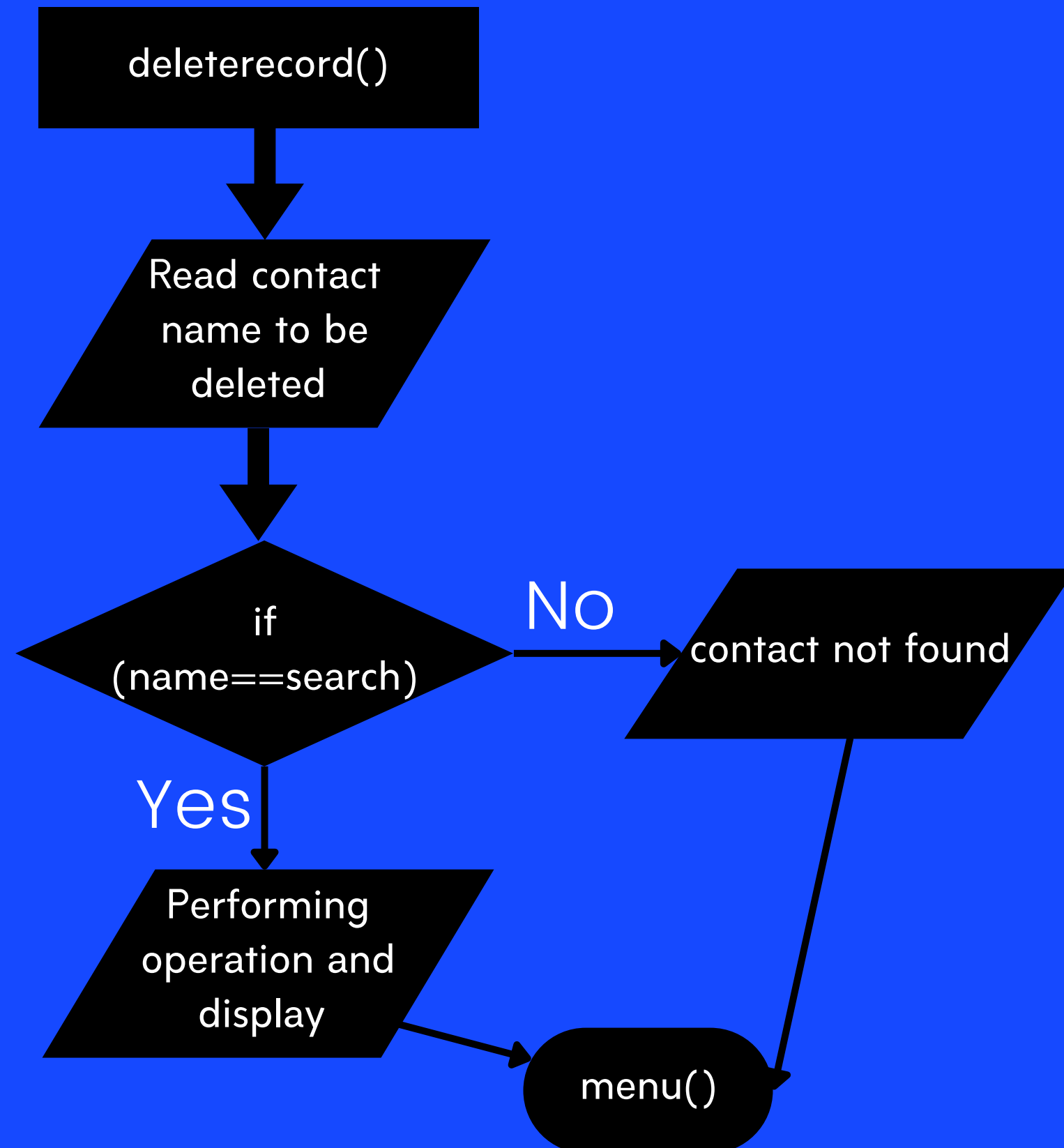
1.Add Contact
2.Delete Contact
3.Modify Contact
4.Search Contact
5.List Contact
6.Exit

Enter choice:5

Phonebook Record

Name	Address	Phone Number	Mail_Id
Harsh	B1	1234567890	h@gmail.com
Anmol	Gurugram	1231231230	a@gmail.com

Working of Deletion Function



Phone Book Mini-Project Program using C

Menu

- 1.Add Contact
- 2.Delete Contact
- 3.Modify Contact
- 4.Search Contact
- 5.List Contact
- 6.Exit

Enter choice:2

Enter contact name:Anmol

Record deleted successfully

Phone Book Mini-Project Program using C

Menu

- 1.Add Contact
- 2.Delete Contact
- 3.Modify Contact
- 4.Search Contact
- 5.List Contact
- 6.Exit

Enter choice:5

Phonebook Record

Name	Address	Phone Number	Mail_Id
Harsh	B1	1234567890	h@gmail.com

Conclusion

Phonebook program is user friendly and easy to manage and handle contact details. This program allows user to insert, delete, modify and search contacts based on user choice using file handling. Each operation is segmented as an individual function and hence control goes to each block for execution as per the choice of user.

Thank you!