

# Sana'a UNIVERSITY



## FACULTY OF ENGINEERING

Mechatronics Department

Second Year

# Report

## Academic Report About (C Language)

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## **Abstract**

The Phonebook Mini Project in C is a console-based application written in the C programming language. This system is a simple little project that was created in the Code: Blocks IDE and compiled with the GCC compiler. The Phonebook app has a few basic features for adding, searching, updating, and removing new contacts. ... Functions, file management, and data structure are all used. This application describes how to add, view, alter, receive, and delete data from and to files. This system can be used by the schools, bus company, government agencies, office, and company that can monitor daily activities. You will always have access to your contacts, whether you are at work or at home. The basic goal of a phonebook application is to locate a person's or organization's address in a short amount of time.

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# Chapter 1 INTRODUCTION TO C LANGUAGE

## 1.1 BACKGROUND

## 1.2 Project Details and Technology

The project's name is Phonebook Management System, and the following are the project's details and technologies: The project was written in C. The language used is C. Sourcecodehero.com is the project's developer, and Dev- or Code Blocks are the recommended IDEs for this project, which is a desktop application. The database of this system only stores data in.DAT files.

This system can be used by the schools, bus company, government agencies, office, and company that can monitor daily activities. The Phonebook app has a few basic features for adding, searching, updating, and removing new contacts. ... Functions, file management, and data structure are all used. This application describes how to add, view, alter, receive, and delete data from and to files. his program will show you how to add, list, edit or alter, look at, and delete data from a record. When adding a record to the Phonebook, personal information such as name, gender, father's name, contact number, postal code, email, and address is requested. These records might be changed, recorded, searched for, and deleted.

## Chapter 2      Why to use Phonebook

### 2.1 BACKGROUND

#### 2.1.1 Definitions

This simple C Phonebook Mini Project creates an external file to permanently store the user's data and conduct file handling activities. Phonebook is a very simple C project that will help you understand the core concepts of capacity, record keeping, and data structure. The Phonebook app has a few basic features for adding, searching, updating, and removing new contacts. ... Functions, file management, and data structure are all used. This application describes how to add, view, alter, receive, and delete data from and to files.

### 2.2 What is the importance of phonebook management system?

You will always have access to your contacts, whether you are at work or at home. The basic goal of a phonebook application is to locate a person's or organization's address in a short amount of time. For example, we can look up a person using their name, address, email, phone number, or location.

## Chapter 3 Coding of project

### 3.1 Major Functionalities Used in Phonebook Management System in C

#### 3.1.1 MAIN MENU

When you start the project from any compiler or by double-clicking the executable.exe file, you'll see the screen shown below is main screen window.

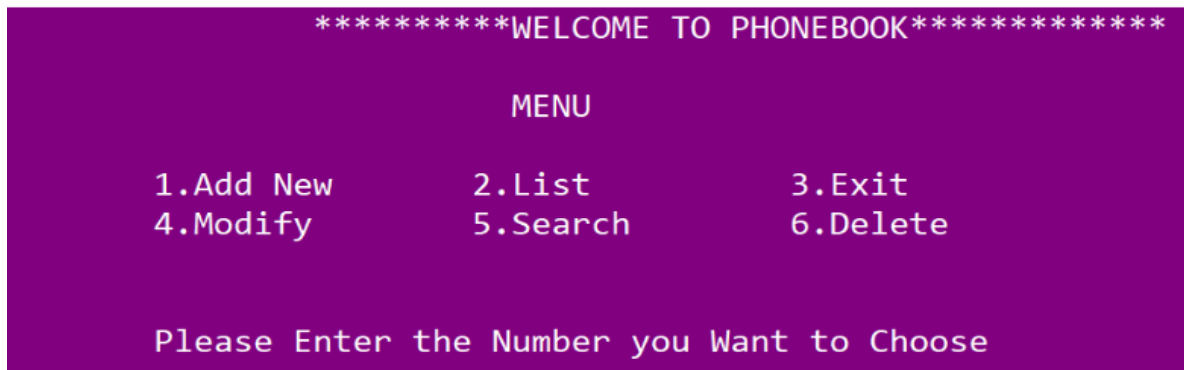


Figure 1Explain of MAIN MENU

#### 3.1.2 ADD NEW PHONEBOOK

In the image below is the example of adding new phonebook in the database

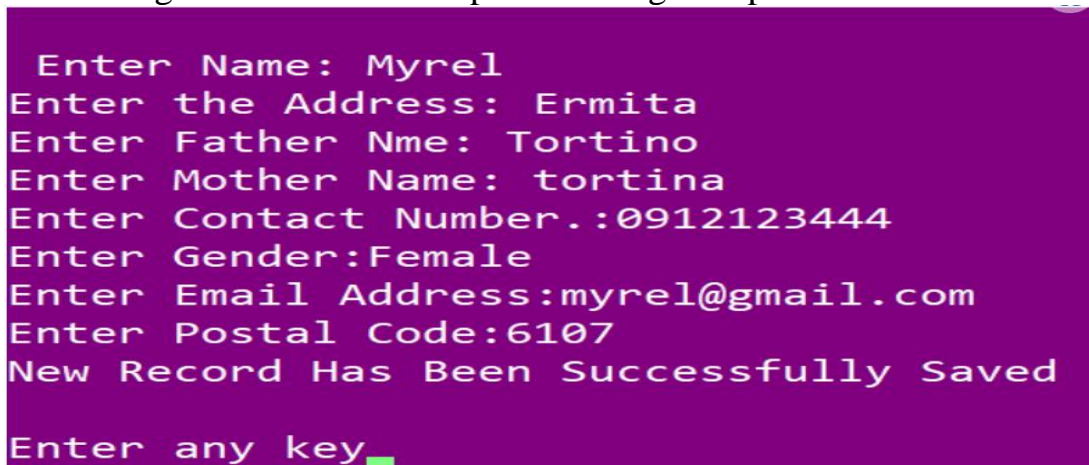


Figure 2Explain of ADD NEW PHONEBOOK

### 3.1.3 LIST OF PHONEBOOK

In the image below is the example of viewing the list of phonebook in the database.

```
YOUR RECORD INFORMATION IS

Name=Myrel
Adress=Ermita
Father name=Tortino
Mother name=tortina
Mobile no=912123444
Sex=Female
E-mail=myrel@gmail.com
Citizen no=6107
```

Figure 3 Explain of LIST OF PHONEBOOK

### 3.1.4 MODIFY RECORD

In the image below is the example of updating the phonebook information in the database.

```
Enter CONTACT'S NAME TO MODIFY:
Jason
  Enter Name:Ado
Enter the Address:ado@gmail.com
Enter Father Name:bernard
Enter Mother Name:rosa
Enter Contact Number:09123455678

Enter Gender:Male
Enter Email Address:ado@gmail.com
Enter Postal Code
6211
  your data id modified
  Enter any key
```

Figure 4 Explain of MODIFY RECORD

### 3.1.5 SEARCH PHONEBOOK RECORD

In the image below is the example of searching the phonebook information in the database.

```
*****WELCOME TO PHONEBOOK*****

                                MENU

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

      Please Enter the Number you Want to Choose
Enter the Name of Person you want to Search
Ado

      Detail Information About Ado
Name:Ado
address:ado@gmail.com
Father name:bernard
Mother name:rosa
Mobile no:533521086
sex:Male
E-mail:ado@gmail.com
Citision no:6211file not found
Enter any key
```

Figure 5 Explain of SEARCH PHONEBOOK RECORD

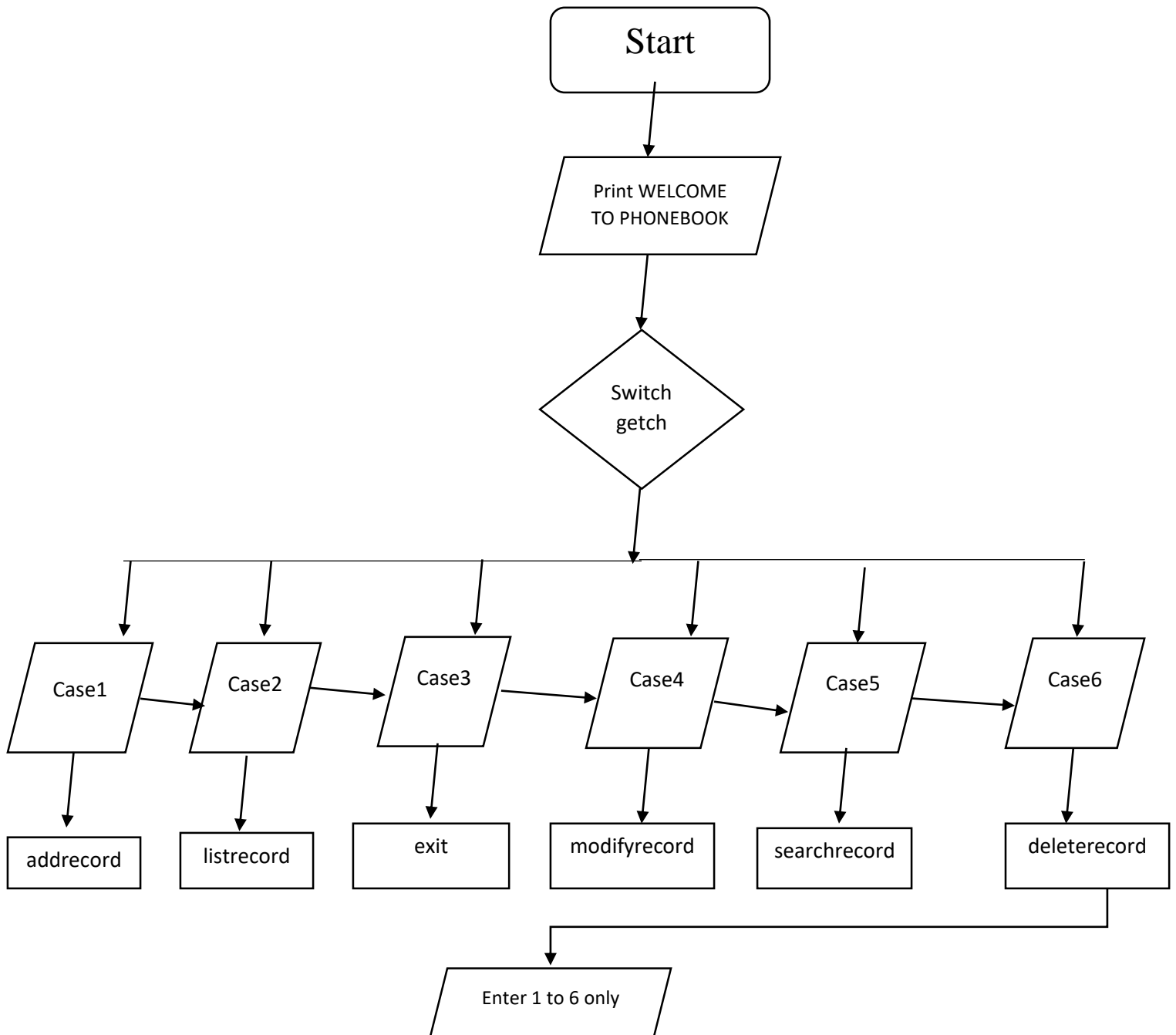


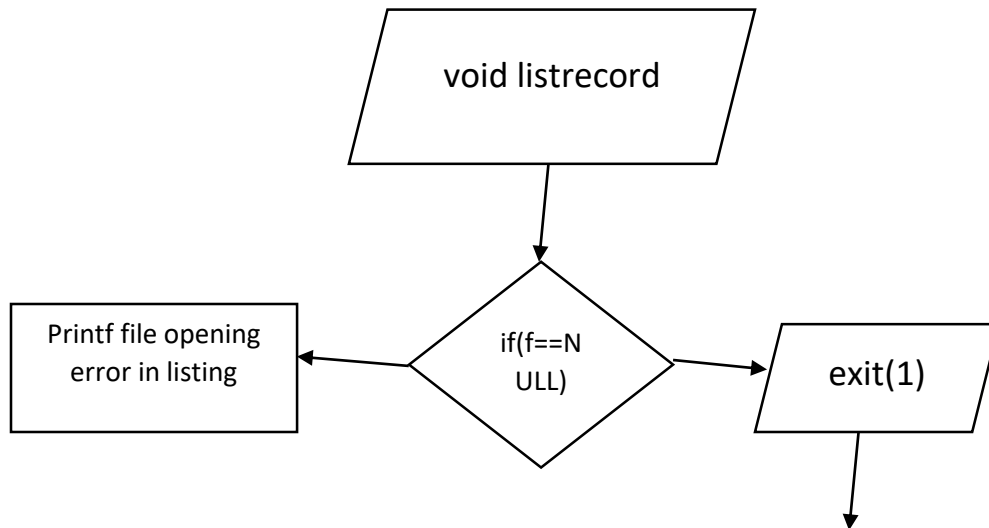
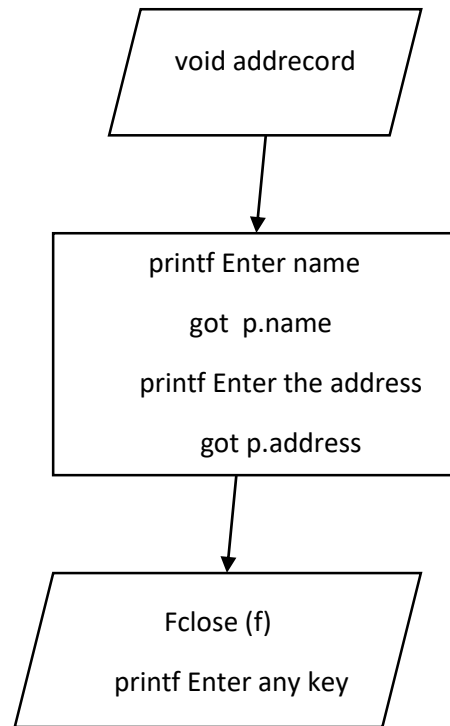
## Chapter 4      Flow Chart

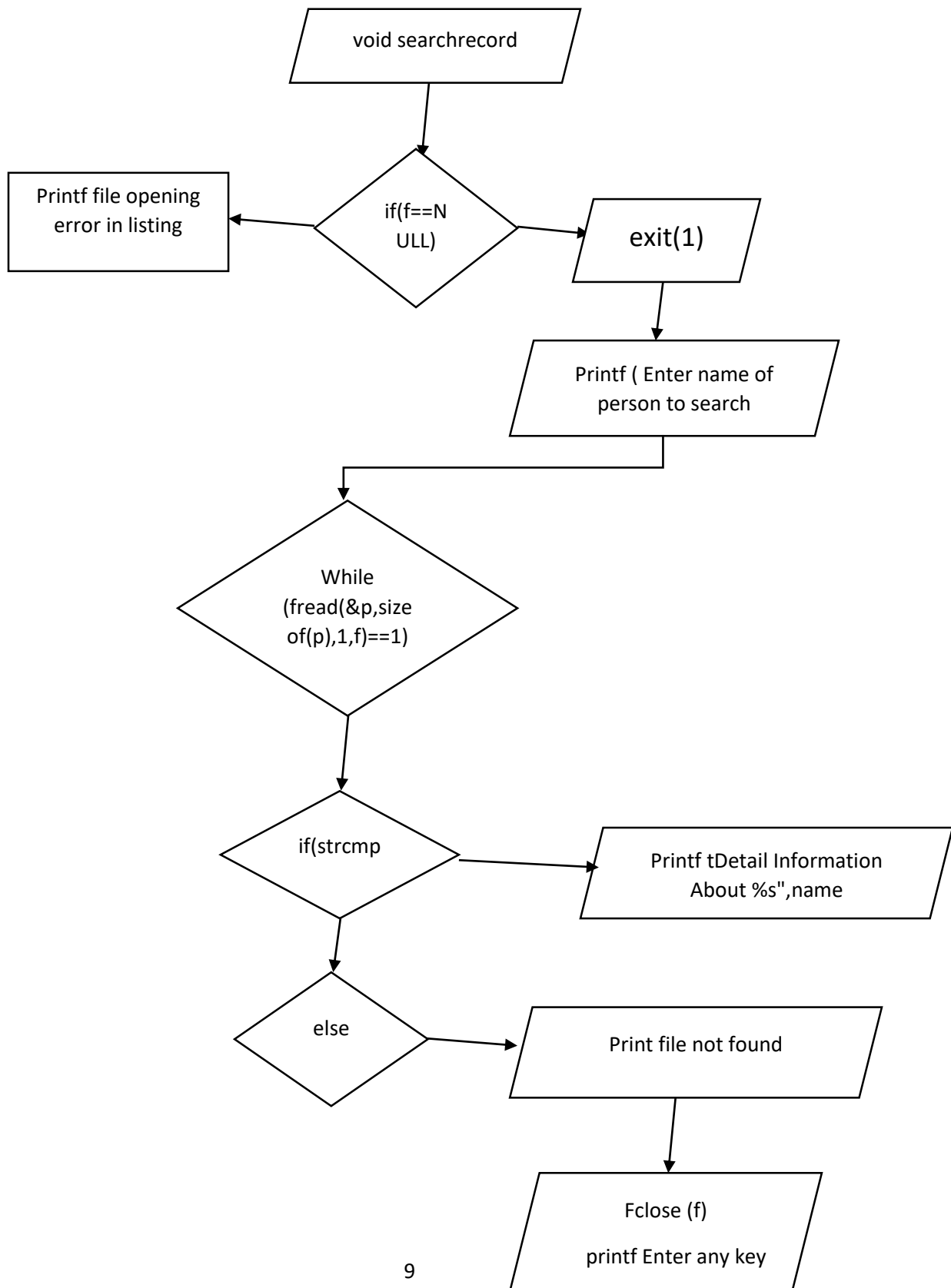
### 4.1 Define of arrays and Function

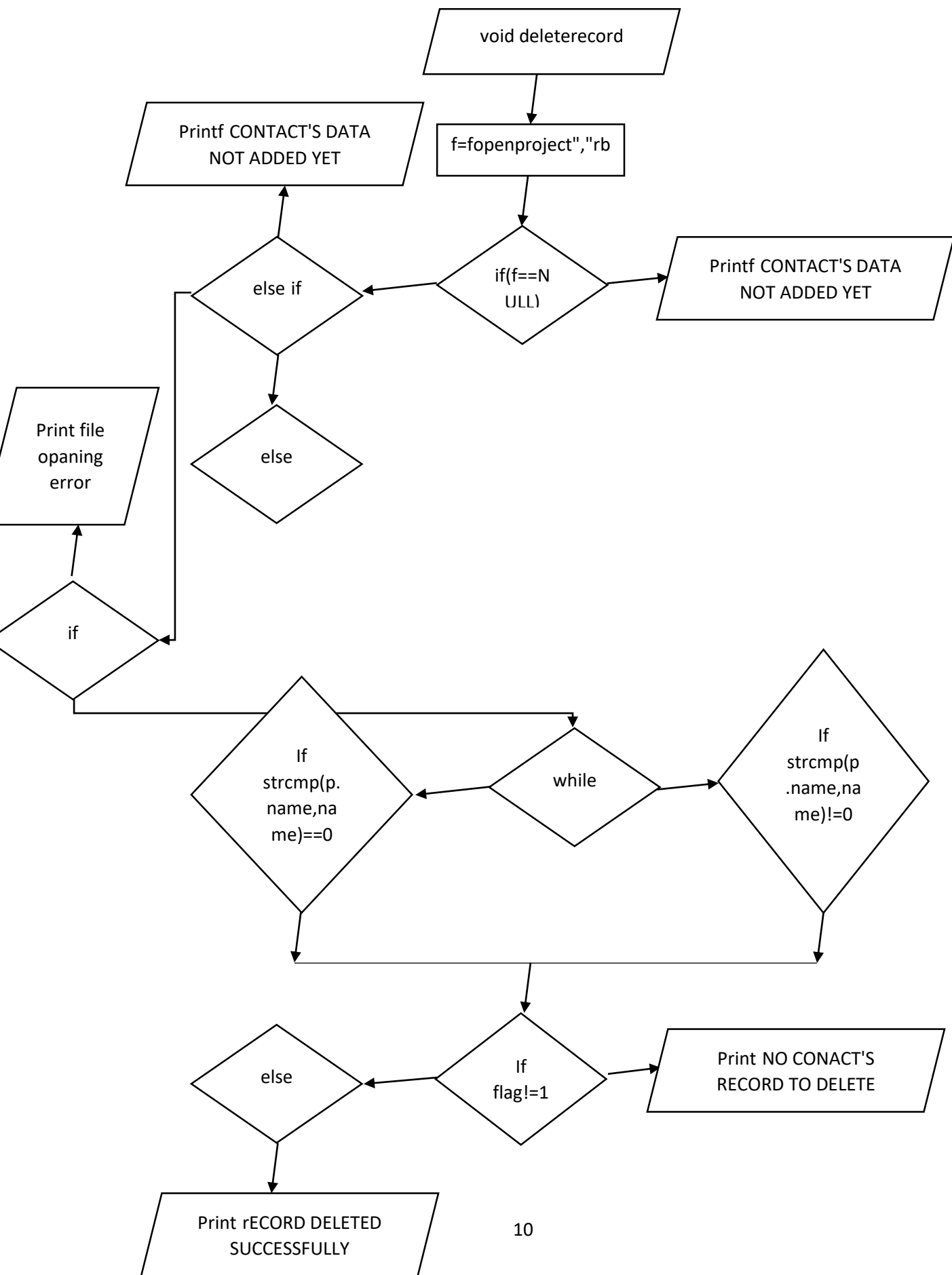
Arrays	Function
char name[35];	void menu();
char address[50];	void got();
char father_name[35];	void start();
char mother_name[30];	void back();
long int mble_no;	void addrecord();
char sex[8];	void listrecord();
char mail[100];	void modifyrecord();
char citision_no[20];	void deleterecord();
char name[35];	void searchrecord();

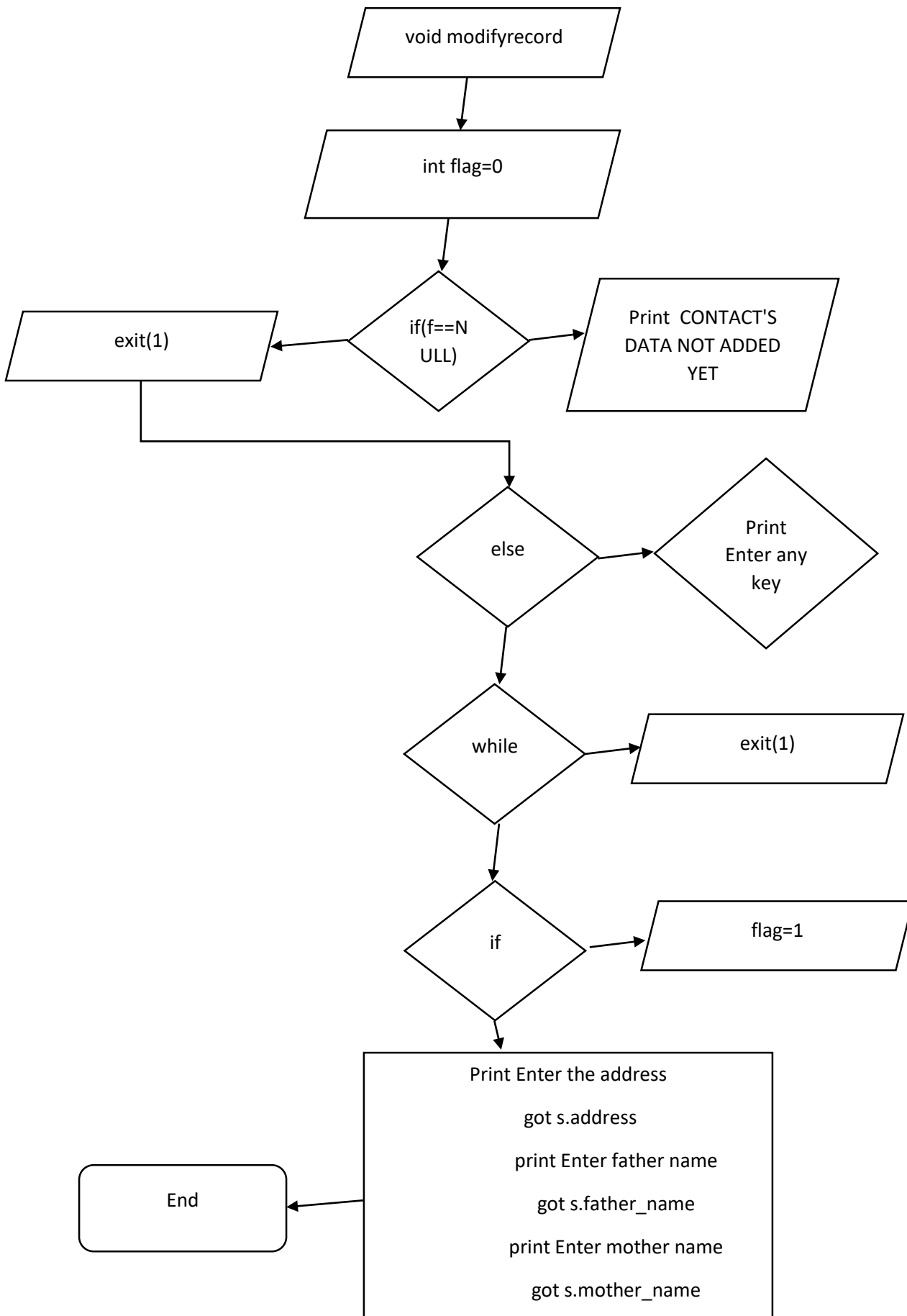
## 4.2 Flow Chart











## **Chapter 5      Conclusion**

This Phonebook Management System Project in C with Source Code is a project created only for the purpose of meeting educational requirements. For a semester project, I developed a Phonebook Management System in C Language. Its goal is to provide newcomers with a solid foundation in programming small to large projects by providing useful and practical information about C. You can download this program and alter it to meet your client's needs; however, because this is a student effort, you shouldn't expect it to be completely working.

## Chapter 6      Bibliography

- [1] Rajinikanth, "Btech Smart Class," [Online]. Available:  
[http://www.btechsmartclass.com/c\\_programming/introduction-to-c-programming.html](http://www.btechsmartclass.com/c_programming/introduction-to-c-programming.html).  
[Accessed 18 03 2022].
- [2] D. Hemmendinger, "Britannica," [Online]. Available:  
<https://www.britannica.com/technology/C-computer-programming-language>. [Accessed 18  
03 2022].
- [3] tutorialspoint, "Simply Easy Learning," 2014. [Online]. Available:  
[https://www.tutorialspoint.com/ansi\\_c/c\\_introduction.htm](https://www.tutorialspoint.com/ansi_c/c_introduction.htm). [Accessed 18 03 2022].
- [4] B. Thomposn, "Guru99," 12 02 2022. [Online]. Available: <https://www.guru99.com/c-programming-language.html>. [Accessed 18 3 2022].
- [5] P. Labs, "Programiz," [Online]. Available: <https://www.programiz.com/c-programming>.  
[Accessed 18 03 2022].