



# Address-Book

By Vishal Patil



# objectives

- Apply Fundamental concepts of C programming in real-world project.
- Implement Create , Read ,Update , Delete (CRUD) operations.
- Learn to persist data using file handling (CSV storage).
- Practice problem-solving, input validation, and modular programming.
- Build a solid foundation for system-level and embedded programming.



# Prerequisites

- C Programming fundamentals (variables , loops , function).
- Structure and pointers for handling complex data.
- Arrays and Strings manipulation for name, number, and E-mails.
- File I\O operation.
- Modular Programming with .c and .h files.



# Features



Add a New Contact  
(with validation for phone &  
email)

Edit and Updates Existing  
contact details

The Address book  
provides

Delete Contact And Search  
contacts by name, phone  
number , or Email

List all Contacts  
(with sorting by name)

1

EXPLORER

...

OPEN EDITORS

1 unsaved

contact.c2

file.h

main.c2

file.c2

contact.h

populate.c

populate.h

ADDRESSBOOK PROJECT

contact.h

file.c2

file.h

main.c2

populate.c

DEBUG CONSOLE

Filter (e.g. text, l...

>

OUTLINE

FILE\_H

loadContactsFrom...

saveContactsToFile...

TIMELINE

file.h

File Saved13 mins

File Saved2 days

contact.c2

file.h

main.c2

file.c2

contact.h

populate.c

populate.h

file.h > ...

1

2

3

4

5

6

7

8

9

10

#ifndef FILE\_H

#define FILE\_H

#include "contact.h"

void loadContactsFromFile(AddressBook \*addressBook);

void saveContactsToFile(AddressBook \*addressBook);

#endif

PROBLEMS6

OUTPUT

TERMINAL

PORTS

vishalp@DESKTOP-88G0B4Q:/mnt/d/addressbook project\$ ./addressbook project

Address Book Menu:

1. Create contact

2. Search contact

3. Edit contact

4. Delete contact

5. List all contacts

6. Save contacts

7. Exit

Enter your choice: 1

Enter name: vishal

Enter phone: 887766554433

Enter email: vishal@gmail.com

Contact created successfully.

Address Book Menu:

1. Create contact

2. Search contact

3. Edit contact

4. Delete contact

wsll

wsll

wsll

wsll

Launchpad

6

0

Ln 10, Col 1

Spaces: 4

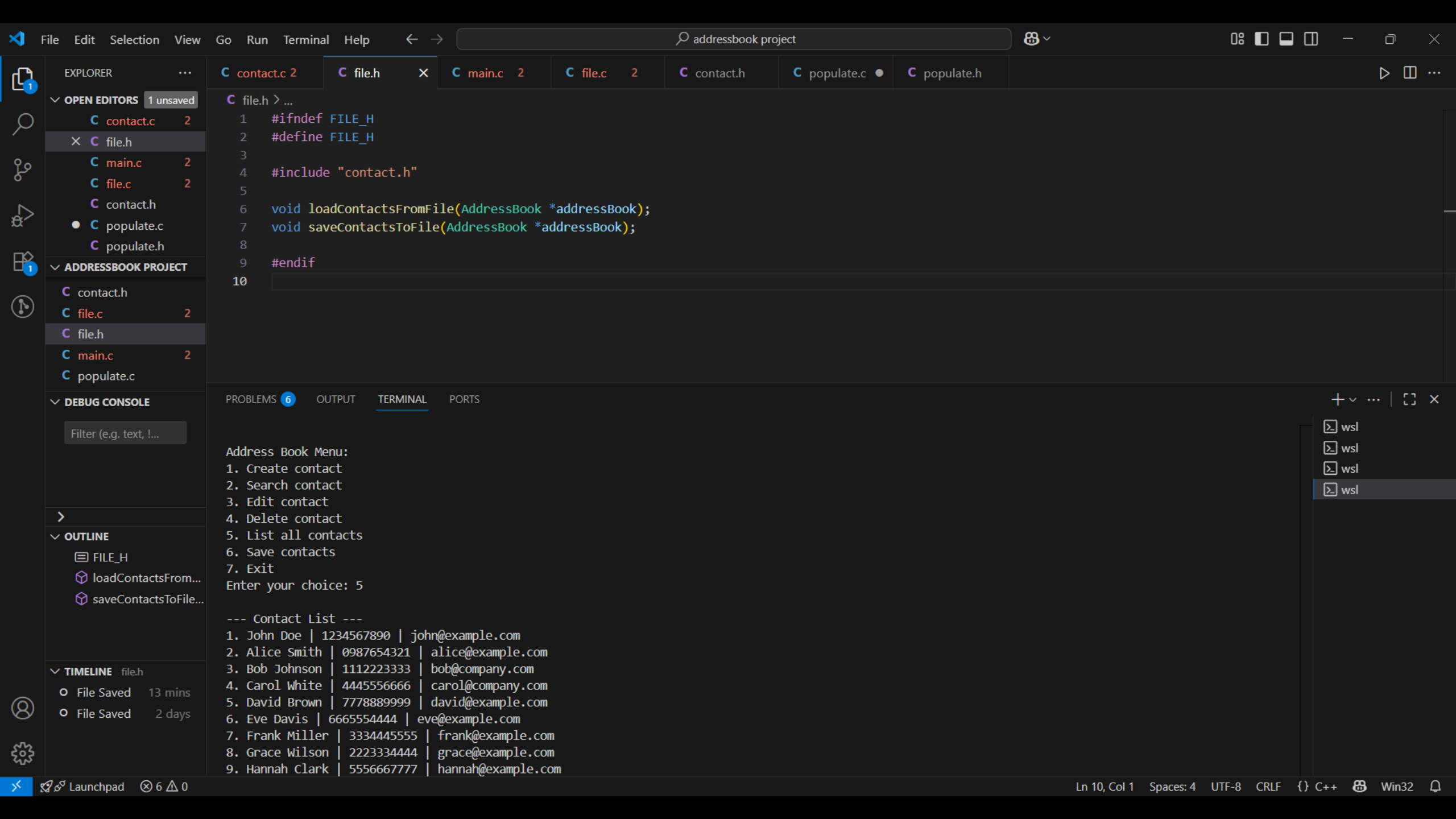
UTF-8

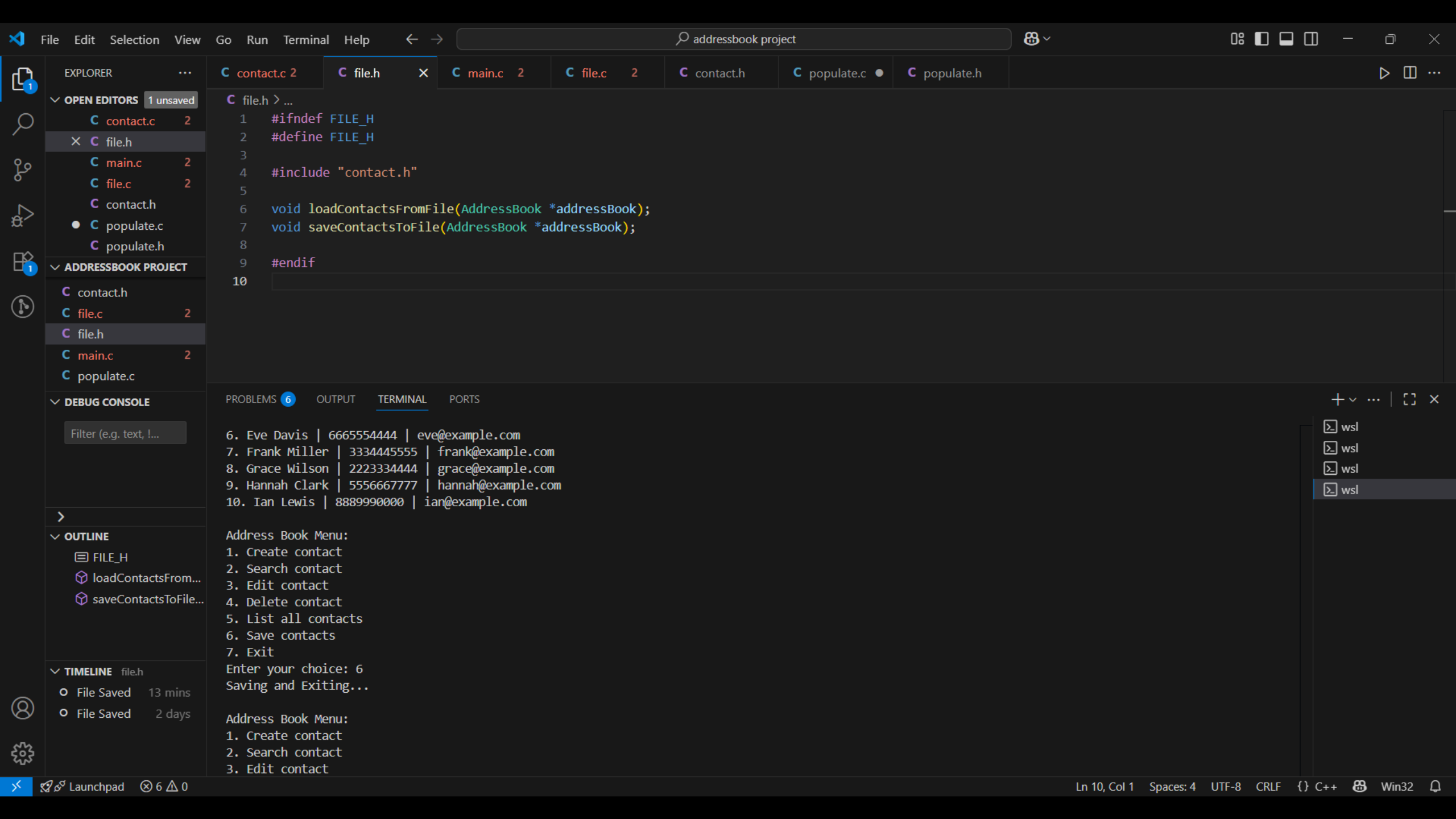
CRLF

C++

Win32











# Key Learnings



- Strengthened my understanding of C fundamentals.
- Learned how to design projects using modular programming.
- Applied error handling and input validation in real scenarios.
- Understood how file handling enables persistence in applications.
- Gained experience in structuring code for scalability.