**Source code:**

**#include <stdio.h>**

**#include <stdlib.h>**

**#include <string.h>**

**// Define struct**

**struct Contact {**

**char name[50];**

**char phone[15];**

**char email[50];**

**};**

**// Function declarations**

**void addContact();**

**void viewContacts();**

**void searchContact();**

**void deleteContact();**

**int main() {**

**int choice;**

**while (1) {**

**printf("\nContact Management System\n");**

**printf("1. Add Contact\n");**

**printf("2. View Contacts\n");**

**printf("3. Search Contact\n");**

**printf("4. Delete Contact\n");**

**printf("5. Exit\n");**

**printf("Enter your choice: ");**

**scanf("%d", &choice);**

**getchar(); // Consume leftover newline**

**switch (choice) {**

**case 1: addContact(); break;**

**case 2: viewContacts(); break;**

**case 3: searchContact(); break;**

**case 4: deleteContact(); break;**

**case 5: exit(0);**

**default: printf("Invalid choice. Try again.\n");**

**}**

**}**

**return 0;**

**}**

**void removeNewline(char\* str) {**

**str[strcspn(str, "\n")] = 0;**

**}**

**void addContact() {**

**FILE \*fp = fopen("contacts.txt", "ab");**

**struct Contact c;**

**printf("Enter name: ");**

**fgets(c.name, sizeof(c.name), stdin);**

**removeNewline(c.name);**

**printf("Enter phone: ");**

**fgets(c.phone, sizeof(c.phone), stdin);**

**removeNewline(c.phone);**

**printf("Enter email: ");**

**fgets(c.email, sizeof(c.email), stdin);**

**removeNewline(c.email);**

**fwrite(&c, sizeof(struct Contact), 1, fp);**

**fclose(fp);**

**printf("Contact added successfully.\n");**

**}**

**void viewContacts() {**

**FILE \*fp = fopen("contacts.txt", "rb");**

**struct Contact c;**

**if (fp == NULL) {**

**printf("No contacts found.\n");**

**return;**

**}**

**printf("\n--- Contact List ---\n");**

**while (fread(&c, sizeof(struct Contact), 1, fp)) {**

**printf("Name: %s\nPhone: %s\nEmail: %s\n\n", c.name, c.phone, c.email);**

**}**

**fclose(fp);**

**}**

**void searchContact() {**

**FILE \*fp = fopen("contacts.txt", "rb");**

**struct Contact c;**

**char search[50];**

**int found = 0;**

**if (fp == NULL) {**

**printf("No contacts found.\n");**

**return;**

**}**

**printf("Enter name to search: ");**

**fgets(search, sizeof(search), stdin);**

**removeNewline(search);**

**while (fread(&c, sizeof(struct Contact), 1, fp)) {**

**if (strcmp(c.name, search) == 0) {**

**printf("Contact found:\nName: %s\nPhone: %s\nEmail: %s\n", c.name, c.phone, c.email);**

**found = 1;**

**break;**

**}**

**}**

**if (!found) {**

**printf("Contact not found.\n");**

**}**

**fclose(fp);**

**}**

**void deleteContact() {**

**FILE \*fp = fopen("contacts.txt", "rb");**

**FILE \*temp = fopen("temp.txt", "wb");**

**struct Contact c;**

**char name[50];**

**int found = 0;**

**if (fp == NULL) {**

**printf("No contacts found.\n");**

**return;**

**}**

**printf("Enter name to delete: ");**

**fgets(name, sizeof(name), stdin);**

**removeNewline(name);**

**while (fread(&c, sizeof(struct Contact), 1, fp)) {**

**if (strcmp(c.name, name) != 0) {**

**fwrite(&c, sizeof(struct Contact), 1, temp);**

**} else {**

**found = 1;**

**}**

**}**

**fclose(fp);**

**fclose(temp);**

**remove("contacts.txt");**

**rename("temp.txt", "contacts.txt");**

**if (found)**

**printf("Contact deleted successfully.\n");**

**else**

**printf("Contact not found.\n");**

**}**

**OUTPUT:**

**1. Add Contact:**

Enter name: Aarav Sharma

Enter phone: 9876543210

Enter email: aarav.sharma@email.com

Contact added successfully.

**2. View Contacts:**

--- Contact List ---

Name: Aarav Sharma

Phone: 9876543210

Email: aarav.sharma@email.com

**3. Search Contact:**

Enter name to search: Aarav Sharma

Contact found:

Name: Aarav Sharma

Phone: 9876543210

Email: aarav.sharma@email.com

**4. Delete Contact:**

Enter name to delete: Aarav Sharma

Contact deleted successfully.

**5. Exit:**

The program exits.