#include <stdio.h>

#include <string.h>

#define MAX\_EVENTS 100

Struct Event {

Char date[11];

Char title[100];

};

Struct Event events[MAX\_EVENTS];

Int eventCount = 0;

Void addEvent() {

If (eventCount < MAX\_EVENTS) {

Printf(“Enter date (yyyy-mm-dd): “);

Scanf(“%s”, events[eventCount].date);

Printf(“Enter event title: “);

Scanf(“ %[^\n]”, events[eventCount].title);

eventCount++;

printf(“Event added successfully!\n”);

} else {

Printf(“Event storage is full!\n”);

}

}

Void viewEvents() {

Char date[11];

Printf(“Enter date to view (yyyy-mm-dd): “);

Scanf(“%s”, date);

Printf(“Events on %s:\n”, date);

For (int i = 0; i < eventCount; i++) {

If (strcmp(events[i].date, date) == 0) {

Printf(“- %s\n”, events[i].title);

}

}

}

Void deleteEvents() {

Char date[11];

Printf(“Enter date to delete events from (yyyy-mm-dd): “);

Scanf(“%s”, date);

Int deleted = 0;

For (int i = 0; i < eventCount; i++) {

If (strcmp(events[i].date, date) == 0) {

For (int j = i; j < eventCount – 1; j++) {

Strcpy(events[j].date, events[j + 1].date);

Strcpy(events[j].title, events[j + 1].title);

}

eventCount--;

deleted = 1;

i--; // Check the same index again since elements shifted

}

}

If (deleted) {

Printf(“Events on %s deleted successfully!\n”, date);

} else {

Printf(“No events found on %s.\n”, date);

}

}

Int main() {

Int choice;

While (1) {

Printf(“\nCalendar Application\n”);

Printf(“1. Add Event\n”);

Printf(“2. View Events on Date\n”);

Printf(“3. Delete Events on Date\n”);

Printf(“4. Exit\n”);

Printf(“Enter your choice: “);

Scanf(“%d”, &choice);

Switch (choice) {

Case 1:

addEvent();

break;

case 2:

viewEvents();

break;

case 3:

deleteEvents();

break;

case 4:

printf(“Exiting...\n”);

return 0;

default:

printf(“Invalid choice. Please try again.\n”);

}

}

return 0;

}

OUTPUT

Calendar Application

1. Add Event

2. View Events on Date

3. Delete Events on Date

4. Exit

Enter your choice: 1

Enter date (yyyy-mm-dd): 2023-12-31

Enter event title: New year

Event added successfully!

Calendar Application

1. Add Event

2. View Events on Date

3. Delete Events on Date

4. Exit

Enter your choice: 2

Enter date to view (yyyy-mm-dd): 2023-12-31

Events on 2023-12-31:

- New year

Calendar Application

1. Add Event

2. View Events on Date

3. Delete Events on Date

4. Exit

Enter your choice: 3

Enter date to delete events from (yyyy-mm-dd): 2023-12-31

Events on 2023-12-31 deleted successfully!