PROGRAM:

```
#include <stdio.h>
#include <string.h>
#define MAX_FLIGHTS 10
#define MAX_SEATS 200
#define MAX_NAME_LENGTH 50

typedef struct {
    int flightNumber;
    char destination[MAX_NAME_LENGTH];
    char departure[MAX_NAME_LENGTH];
    int totalSeats;
    int availableSeats;
} Flight;

typedef struct {
    int flightNumber;
    long int passportNumber;
    char passengerName[MAX_NAME_LENGTH];
} Reservation;

    // Arrays to store flights and reservations
Flight flights[MAX_FLIGHTS];
Reservation reservations[MAX_SEATS];
Flight newFlight;
Reservation newReservation;
int numFlights = 0;
int numReservations = 0;
            // Function prototypes
void addFlight();
```

```
void displayFlights();
void makeReservation();
void welcome();
void thank();

int main() {
	int choice;
	clrscr();
	wecome();
	do{
		printf("\nAirline Ticket Booking System\n");
		printf("1. Add Flight\n");
		printf("2. Display Flights\n");
		printf("3. Make Reservation\n");
		printf("4. LOG OUT\n");
		printf("Enter your choice: ");
		scanf("%d", &choice);
		switch (choice) {
			case 1:
				clrscr();
				addFlight();
				break;
			case 2:
				clrscr();
				displayFlights();
				break;
		case 3:
			clrscr();
			makeReservation();
			break;
		case 4:
			clrscr();
```

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                thank();
                break;
            default:
                printf("Invalid choice. Please try again.\n");
                break;
            }
        } while (choice < 4);
    getch();
    return 0;
}
void addFlight() {
        if (numFlights >= MAX_FLIGHTS) {
            printf("\nMaximum number of flights reached.\n");
            return;
        }
        printf("\nEnter Flight Number: ");
        scanf("%d", &newFlight.flightNumber);
        printf("Enter Destination: ");
        scanf("%s", newFlight.destination);
        printf("Enter Departure: ");
        scanf("%s", newFlight.departure);
        printf("Enter Total Seats: ");
        scanf("%d", &newFlight.totalSeats);
        newFlight.availableSeats = newFlight.totalSeats;
        flights[numFlights++] = newFlight;
        printf("Flight added successfully!\n");
}
void displayFlights() {
        int i;
        clrscr();
        if (numFlights == 0) {
            printf("No flights found.\n");
```

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            return;
        }
        printf("\nFlight List:\n");
        printf("-------------------------------------------------------\n");
        printf("Flight\tDestination\tDeparture\tAvailable Seats\n");
        printf("-------------------------------------------------------\n");
        for ( i = 0; i < numFlights; i++) {
            printf("%d\t%s\t\t%s\t\t%d/%d\n", flights[i].flightNumber,
            flights[i].destination,flights[i].departure,
            flights[i].availableSeats,flights[i].totalSeats);
        }
        printf("-------------------------------------------------------\n");
}
void makeReservation() {
        int flightNumber;
        int flightIndex=-1;
        int i;
        clrscr();
        displayFlights();
        if (numFlights == 0) {
            printf("No flights available for reservation.\n");
            return;
        }
        printf("\nEnter Flight Number for Reservation: ");
        scanf("%d", &flightNumber);
        for ( i = 0; i < numFlights; i++) {
            if (flights[i].flightNumber == flightNumber) {
                flightIndex = i;
                break;
            }
        }
        if (flightIndex == -1) {
            printf("Flight with number %d not found.\n", flightNumber);
```

```
            return;
        }
        if (flights[flightIndex].availableSeats <= 0) {
            printf("Sorry, no available seats for this flight.\n");
            return;
        }
        if (numReservations >= MAX_SEATS) {
            printf("Maximum number of reservations reached.\n");
            return;
        }
        newReservation.flightNumber = flightNumber;
        printf("\nEnter passport number: ");
        scanf("%ld",newReservation.passportNumber);
        printf("Enter Passenger Name: ");
        scanf("%s", newReservation.passengerName);
        flights[flightIndex].availableSeats--;
        reservations[numReservations++] = newReservation;
        printf("Reservation made successfully!\n");
}
void welcome(){
        printf("\n\n\n\n");
        printf("\n\t  **-**-**-**-**-**-**-**-**-**-**-**-**-**-**-**-**");
        printf("\n\t  **    =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=  **");
        printf("\n\t  **    =                                         =  **");
        printf("\n\t  **    =                WELCOME                  =  **");
        printf("\n\t  **    =                  TO                     =  **");
        printf("\n\t  **    =             AIRLINE TICKET              =  **");
        printf("\n\t  **    =             BOOKING SYSTEM              =  **");
        printf("\n\t  **    =                                         =  **");
        printf("\n\t  **    =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=  **");
        printf("\n\t  **-**-**-**-**-**-**-**-**-**-**-**-**-**-**-**-** ");
}
```

```
void thank(){
	printf("\n\n\n\n\n\n");
	printf("\n\t\t****************************************");
	printf("\n\t\t**                                    **");
	printf("\n\t\t**              THANK YOU...!         **");
	printf("\n\t\t**                                    **");
	printf("\n\t\t**     EVERY TAKEOFF IS OPTIONAL...   **");
	printf("\n\t\t**  EVERY LANDING IS MANDOTAORY..!    **");
	printf("\n\t\t**                                    **");
	printf("\n\t\t****************************************");
}
```

//Code Completed