

```
# Sample flight data for demonstration
```

```
flights = [  
    {"flight_id": 101, "origin": "New York", "destination": "London", "departure": "2024-11-01 10:00",  
    "price": 500},  
    {"flight_id": 102, "origin": "New York", "destination": "Paris", "departure": "2024-11-02 14:30",  
    "price": 450},  
    {"flight_id": 103, "origin": "London", "destination": "Dubai", "departure": "2024-11-03 22:00",  
    "price": 600},  
]
```

```
# Function to display available flights
```

```
def display_flights():  
    print("Available flights:")  
    for flight in flights:  
        print(  
            f"Flight ID: {flight['flight_id']} | Origin: {flight['origin']} | "  
            f"Destination: {flight['destination']} | Departure: {flight['departure']} | Price: ${flight['price']}"  
        )
```

```
# Function to book a flight
```

```
def book_flight():  
    display_flights()  
    try:  
        flight_id = int(input("Enter the Flight ID of the flight you want to book: "))  
        flight = next((f for f in flights if f["flight_id"] == flight_id), None)  
        if not flight:  
            print("Invalid Flight ID.")  
            return  
  
        # Collect passenger information  
        passenger_name = input("Enter your name: ")  
        num_tickets = int(input("Enter the number of tickets: "))
```

```
# Calculate total cost
```

```
total_cost = flight["price"] * num_tickets
```

```
print(f"\nBooking Confirmation:")
```

```
print(f"Passenger Name: {passenger_name}")
```

```
print(f"Flight: {flight['origin']} to {flight['destination']}")
```

```
print(f"Departure: {flight['departure']}")
```

```
print(f"Number of Tickets: {num_tickets}")
```

```
print(f"Total Cost: ${total_cost}")
```

```
print("Your booking has been confirmed. Safe travels!")
```

```
except ValueError:
```

```
    print("Invalid input. Please try again.")
```

```
# Main menu
```

```
def main():
```

```
    while True:
```

```
        print("\n--- Flight Booking System ---")
```

```
        print("1. View Available Flights")
```

```
        print("2. Book a Flight")
```

```
        print("3. Exit")
```

```
        choice = input("Enter your choice: ")
```

```
        if choice == "1":
```

```
            display_flights()
```

```
        elif choice == "2":
```

```
            book_flight()
```

```
        elif choice == "3":
```

```
            print("Thank you for using the Flight Booking System!")
```

```
            break
```

```
    else:
        print("Invalid choice. Please try again.")

# Run the main menu
if __name__ == "__main__":
    main()
```

OUTPUT:

--- Flight Booking System ---

1. View Available Flights
2. Book a Flight
3. Exit

Enter your choice: 1

Available flights:

Flight ID: 101 | Origin: New York | Destination: London | Departure: 2024-11-01 10:00 | Price: \$500

Flight ID: 102 | Origin: New York | Destination: Paris | Departure: 2024-11-02 14:30 | Price: \$450

Flight ID: 103 | Origin: London | Destination: Dubai | Departure: 2024-11-03 22:00 | Price: \$600

--- Flight Booking System ---

1. View Available Flights
2. Book a Flight
3. Exit

Enter your choice: 2

Available flights:

Flight ID: 101 | Origin: New York | Destination: London | Departure: 2024-11-01 10:00 | Price: \$500

Flight ID: 102 | Origin: New York | Destination: Paris | Departure: 2024-11-02 14:30 | Price: \$450

Flight ID: 103 | Origin: London | Destination: Dubai | Departure: 2024-11-03 22:00 | Price: \$600

Enter the Flight ID of the flight you want to book: