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Test Case 1: Creating and Displaying Flight Objects

Flight 1	
Airline Name	"ABC Airlines"
Flight Number	"ABC123"
Flight Origin	"New York"
Destination City	"London"
Airfare	\$500.00
Departure Time	08:00
Arrival Time	16:00
Distance	3500 miles
Aircraft Type	"Boeing 747"
Pilot Name	"John Smith"
Max Passengers	300

Flight 2	
Airline Name	"XYZ Airlines"
Flight Number	"XYZ789"
Flight Origin	"Paris"
Destination City	"Tokyo"
Airfare	\$800
Departure Time	12:30
Arrival Time	21:30
Distance	6000 miles
Aircraft Type	"Airbus A380"
Pilot Name	"Emma Johnson"
Max Passengers	500

Entering Details of Flight 1:

```
General Condition: cloudy

Temperature: 21.4340
Enter the number of flights:

A Enter the details of the Flight 1:
Airline Name:
ARC APPLANS

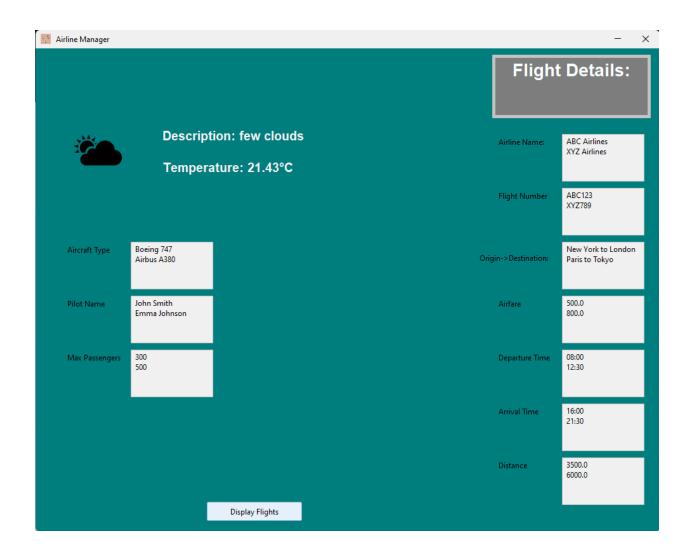
Flight Origin:
AND YOPK

Destination City:
London
Airfare:
500
Departure Time (HH:mm:ss):
68:00
Invalid Departure Time (HH:mm:ss):
Departure Time (HH:mm:ss):
88:00:00
Arrival Time (HH:mm:ss):
88:00:00
Arr
```

Entering Details of Flight 2:

```
Enter the details of the Flight 2:
Airline Name:
XYZ Airlines
Flight Number:
XYZ789
Flight Origin:
Paris
Destination City:
Tokyo
Airfare:
800
Departure Time (HH:mm:ss):
12:30:00
Arrival Time (HH:mm:ss):
21:30:00
Distance:
6000
Aircraft Type:
Airbus A380
Pilot Name:
Emma Johnson
Max Passengers:
500
```

Displaying Flight Details on GUI:



Test Case 2: Displaying Sort Functionality:

Flight 1	
Airline Name	"ABC Airlines"

Flight Number	"ABC123"
Flight Origin	"New York"
Destination City	"London"
Airfare	\$500.00
Departure Time	08:00
Arrival Time	16:00
Distance	3500 miles
Aircraft Type	"Boeing 747"
Pilot Name	"John Smith"
Max Passengers	300

Flight 2	
Airline Name	"XYZ Airlines"
Flight Number	"XYZ789"
Flight Origin	"Paris"
Destination City	"Tokyo"
Airfare	\$800
Departure Time	12:30
Arrival Time	21:30
Distance	6000 miles
Aircraft Type	"Airbus A380"
Pilot Name	"Emma Johnson"
Max Passengers	500

Flight 3	
Airline Name	"PQR Airlines"

Flight Number	"DEF456"
Flight Origin	"Los Angeles"
Destination City	"Sydney"
Airfare	\$1100.00
Departure Time	22:15
Arrival Time	23:59
Distance	7800 miles
Aircraft Type	"Boeing 787"
Pilot Name	"Ethan Johnson"
Max Passengers	280

Flight 4	
Airline Name	"MNO Airlines"
Flight Number	"GHI234"
Flight Origin	"Dubai"
Destination City	"New York"
Airfare	\$800
Departure Time	17:30
Arrival Time	22:30
Distance	6800 miles
Aircraft Type	"Airbus A350"
Pilot Name	"Sophia Thompson"
Max Passengers	420

Displaying Pre-Sorted Flight Details:

Pre-sorted Flight Details:

Flight Details:

Airline Name: ABC Airlines

Flight Number: ABC123 Flight Origin: New York Destination City: London

Airfare: \$500.0

Departure Time: 08:00
Arrival Time: 16:00
Distance: 3500.0 miles
Aircraft Type: Boeing 747
Pilot Name: John Smith
Max Passengers: 300

Flight Details:

Airline Name: XYZ Airlines

Flight Number: XYZ789
Flight Origin: Paris
Destination City: Tokyo

Airfare: \$800.0

Departure Time: 12:30
Arrival Time: 21:30
Distance: 6000.0 miles

Aircraft Type: Airbus A380 Pilot Name: Emma Johnson

Max Passengers: 500

Flight Details:

Airline Name: PQR Airlines

Flight Number: DEF456

Flight Origin: Los Angeles Destination City: Sydney

Airfare: \$1100.0

Departure Time: 22:15

Flight Details:

Airline Name: PQR Airlines

Flight Number: DEF456

Flight Origin: Los Angeles Destination City: Sydney

Airfare: \$1100.0

Departure Time: 22:15
Arrival Time: 23:59:59
Distance: 7800.0 miles
Aircraft Type: Boeing 787
Pilot Name: Ethan Johnson

Max Passengers: 280

Flight Details:

Airline Name: MNO Airlines

Flight Number: GHI234 Flight Origin: Dubai

Destination City: New York

Airfare: \$800.0

Departure Time: 18:30 Arrival Time: 22:30 Distance: 6800.0 miles

Aircraft Type: Airbus A350 Pilot Name: Sophia Thompson

Max Passengers: 420

Displaying Sorted Flight Details:

Sorted Flight Details [ascending]: Flight Details: Airline Name: ABC Airlines Flight Number: ABC123 Flight Origin: New York Destination City: London Airfare: \$500.0 Departure Time: 08:00 Arrival Time: 16:00 Distance: 3500.0 miles Aircraft Type: Boeing 747 Pilot Name: John Smith Max Passengers: 300 Flight Details: Airline Name: PQR Airlines Flight Number: DEF456 Flight Origin: Los Angeles Destination City: Sydney Airfare: \$1100.0 Departure Time: 22:15 Arrival Time: 23:59:59 Distance: 7800.0 miles Aircraft Type: Boeing 787 Pilot Name: Ethan Johnson Max Passengers: 280 Flight Details: Airline Name: MNO Airlines Flight Number: GHI234 Flight Origin: Dubai Destination City: New York

Airfare: \$800.0

Flight Details:

Airline Name: MNO Airlines

Flight Number: GHI234 Flight Origin: Dubai

Destination City: New York

Airfare: \$800.0

Departure Time: 18:30 Arrival Time: 22:30 Distance: 6800.0 miles Aircraft Type: Airbus A350

Pilot Name: Sophia Thompson

Max Passengers: 420

Flight Details:

Airline Name: XYZ Airlines

Flight Number: XYZ789
Flight Origin: Paris
Destination City: Tokyo

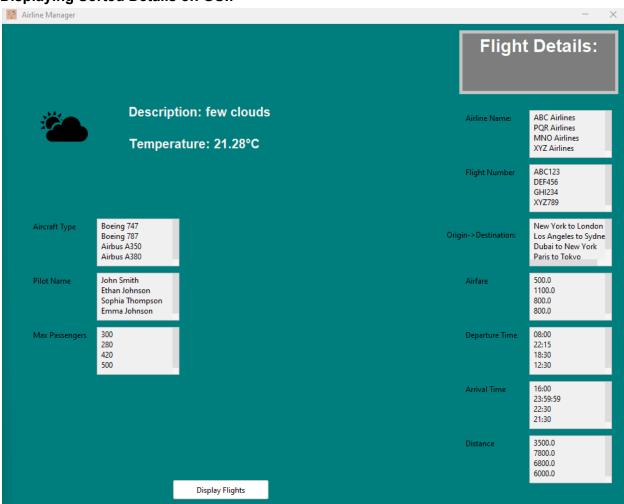
Airfare: \$800.0

Departure Time: 12:30 Arrival Time: 21:30 Distance: 6000.0 miles

Aircraft Type: Airbus A380 Pilot Name: Emma Johnson

Max Passengers: 500

Displaying Sorted Details on GUI:



Sorted List Structure:

Flight 1 (Flight Number: "ABC123") Flight 3 (Flight Number: "DEF456") Flight 4 (Flight Number: "GHI234") Flight 2 (Flight Number: "XYZ789")