**Flight Information System**

This Java program manages flight information, allowing users to display, sort, search, and view flight details using a graphical user interface. Users can input flight data such as airline name, flight number, origin, destination, departure time, arrival time, distance, and airfare. The program provides authentication and user access control.

**How to Use the Program**

1. Authentication:

* Run the program and enter your username and password for authentication. Two predefined user accounts are available: ‘admin’ (password: ‘admin123’) and ‘user’ (password: ‘user123’).

1. Flight Entry:

* After successful authentication, enter the number of flights you want to manage.
* Enter Flight details, including airline name, flight number, origin, destination, departure, and arrival time (HH:mm format), distance (in km), and airfare.

1. Display Flight:

* Click on the “Display Flight” button to view the entered flight details in a table.

1. Sort Flight:

* Click on the “Sort Flights” button to sort flights based on flight numbers in ascending order.

1. Search Flight:

* Click on the “Search” button to search for a specific flight by its flight number.

1. Display Text Area:

* Click on the “Display TextArea” button to view flight details in a text area format.

**Program Components**

1. Form1 Class:

* Manages the graphical user interface using Java Swing.

1. Flight Class:

* Represents flight information, including airline name, flight number, origin, destination, departure time, arrival time, distance, and airfare.
* Provides methods to get and set flight details.

1. FlightTest Class:

* Contains the main method to run the program.
* Manages user authentication and flight data input.

1. User Class:

* Represents user credentials for authentication.
* Provides methods to authenticate users.

**Important Notes**

* Flight information is displayed both in a table and a text area.
* Flights can be sorted based on flight numbers.
* Users can search for specific flights by entering a flight number.

**How to Run the Program**

1. Ensure you have Java Development Kit (JDK) installed on your system.
2. Compile and run the Form1 class, which contains the Graphical User Interface.
3. Follow the on-screen instructions to use the program.