Coding Challenge: Airline Flight Performance Analysis

An airline company wants to analyze flight performance and customer experience to reduce delays and improve service quality.

Dataset (Sample Fields)

- Flight_ID
- Date
- Airline
- Origin_Airport
- Destination Airport
- Scheduled_Departure
- Actual_Departure
- Scheduled Arrival
- Actual Arrival
- Status (On-time, Delayed, Cancelled)
- Passengers

Tasks

- 1. Data Cleaning:
 - Convert time columns into datetime.
 - Create a new column **Delay_Minutes**
 - Handle missing or cancelled flights.

2. Analysis:

- o Find top 5 busiest routes (Origin → Destination) by passenger count.
- Calculate average delay per airline.
- o Identify the airport with the highest cancellations.
- o Find the month with maximum on-time performance.

	alizations:
0	
0	
0	Heatmap of origin vs destination flight counts.