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Program 1: Analyzing Employee Data

Business Case:

A company needs to analyze its employee data to identify specific insights, such as finding employees with the highest salaries in each department, calculating the average salary, filtering employees based on specific criteria, and grouping employees by their departments. This program will showcase how to efficiently process and analyze the data using the Stream API.

Program 1: Employee Data Analysis

• **Objective:** To analyze employee data and extract key insights such as identifying high earners, the highest-paid employee in each department, average salary, grouping employees by department, and checking salary criteria.

Operations Used:

- filter: To find high earners.
- mapToDouble: To calculate the average salary.
- o collect: To group employees by department and to find the highest-paid employee in each department.
- o allMatch: To check if all IT employees earn more than 60,000.
- **Result**: The program efficiently processes the employee data to provide valuable insights for HR and management.