**🔹 Basic Stream Operations**

1. **Filter even numbers**  
   Given a list of integers, filter all even numbers.
2. **Uppercase conversion**  
   Convert a list of strings to uppercase using streams.
3. **Count strings starting with 'A'**  
   From a list of names, count how many start with the letter 'A'.
4. **Remove duplicates**  
   Remove duplicate elements from a list using streams.
5. **Find first element**  
   Find the first element in a stream that is greater than 10.

**🔹 Intermediate Stream Operations**

1. **Sort strings in reverse order**  
   Sort a list of strings in descending (reverse alphabetical) order.
2. **Find max salary**  
   From a list of employees, find the one with the highest salary.
3. **List of squares**  
   Given a list of integers, return a list of their squares.
4. **Join names**  
   Join all names into a single string separated by commas.
5. **Count frequency of each word**  
   Given a list of words, count the frequency of each word.

**🔹 Advanced Use Cases**

1. **Group employees by department**  
   Group a list of employees by their department name.
2. **Find average salary by department**  
   Compute the average salary for each department.
3. **Partition numbers into even and odd**  
   Partition a list of integers into even and odd numbers.
4. **Second highest salary**  
   From a list of employee salaries, find the second highest salary.
5. **Longest string in a list**  
   Find the longest string in a list using reduce.

**🔹 Real-world Scenarios**

1. **Get active users from a list**  
   From a list of User objects, extract all users with status = "active".
2. **Product stock filter**  
   From a list of Product objects, find products in stock and price < 1000.
3. **Top 3 scoring students**  
   From a list of Student objects, find the top 3 based on marks.
4. **Email list of customers from Bangalore**  
   Filter customers whose city is "Bangalore" and collect their emails.
5. **Summarize transaction amounts**  
   From a list of Transaction objects, get summary statistics (min, max, avg, total).