Collect operation

**Collectors.counting**

The Collectors.counting method is a **downstream collector** used to count the number of elements in a group. It returns the count as a Long.

### Collectors.groupingBy

The Collectors.groupingBy method is a **collector** that groups elements of a stream based on a classifier function.

The output of Collectors.groupingBy is always a Map

Collectors.summingDouble is a reduction operation in Java Streams that is used to sum up the results of applying a specific function to each element in the stream.

Collectors.partitioningBy is a specialized collector that splits a stream of elements into **two groups** based on a **predicate** (a condition that evaluates to true or false).

**Key Points:**

1. **Output Type**:
   * Produces a Map<Boolean, List<T>>:
     + true: Contains elements that satisfy the predicate.
     + false: Contains elements that do not satisfy the predicate.
2. **When to Use**:
   * When you want to divide elements into two distinct groups based on a condition.