## **Logic Building Questions**

## Lambda Expressions, Functional Interfaces and Stream API

## 1. Custom Functional Interface

You are asked to create a custom functional interface TriFunction that takes three parameters of any type and returns a result.

- Write the functional interface definition.
- Use it in a lambda expression to concatenate three strings.

## 2. Custom Sorting with Lambda

Sort a list of employees (List<Employee>) by their salary in descending order using a lambda expression.

• If two employees have the same salary, sort them by their names alphabetically.

#### 3. Comparator with Lambda

You are tasked with sorting a list of employees based on their salary (descending).

- Define an Employee class with name and salary fields.
- Use a lambda expression to implement a Comparator.
- Sort the list and print the top 3 salaries.

# 4. Functional Programming in Collections

- Given a map of student names and their scores, use a lambda expression to:
  - Filter students with scores above a certain threshold.
  - Print their names in uppercase.
- 5. **Exception Handling in Lambdas:** You have a List<String> where some elements are null. Write a lambda expression to:
  - Safely handle null values while processing the list.
  - Print the lengths of non-null strings.