HR

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■ i wanted to get a try at a HR code that by filtering out a list tries to find the most suitable employee to get a raise. The metrics chosen by me include the performance of the employee and the tenure. Even if the code gives out a default "Top pick" based on these metrics i know alot of more factors are envolved but for the proyect i took those in account.



HR.java

■ The main again, here i define each of the employees givien each a name, position, salary, a "performance" and a Hire date to calculate the tenure.

```
new Employee("Felix", "Developer", 80000, 9.0, LocalDate.of(2022, 6, 15))
```

```
Optional<List<Employee>> optionalTopEmployees = employees.stream()
    .filter(Employee::isEligibleForRaise)
    .filter(e -> e.getPerformance() >= 9.0)
    .sorted((e1, e2) -> Double.compare(e2.calculateRaiseScore(), e1.calculateRaiseScore()))
    .limit(3)
    .collect(Collectors.collectingAndThen(
        Collectors.toList(),
        list -> list.isEmpty() ? Optional.<List<Employee>>empty() : Optional.of(list)
    ));
System.out.println("Top Candidates for a Raise:");
System.out.printf("%-15s %-15s %-8s %-10s %-10s%n",
        "Name", "Position", "Salary", "Performance", "Tenure");
optionalTopEmployees.ifPresentOrElse(
    list -> {
        list.forEach(System.out::println);
        System.out.println("\nDefault Top Pick for a Raise:");
        list.stream().findFirst().ifPresent(System.out::println);
    () -> System.out.println("No candidates eligible for a raise.")
```

- First for the stream i check if the employee has more tan a year in the Company to see if they are eligible for a raise
- Then i filter out any employee that has a lower performance tan 9.0
- Next i sort them out by their Raise score
- Now i limit the list for the top 3 and collect it to check if its empty.
- Finally i check with an optional if any employees are present to print those 3 and a default top pick.

Employee.java

■ The Employee class has its attributes: name, position, currentSalary, performance and hireDate. To get the Raise score I multiply the performance by 1.5 and the tenure by 0.5 and then add them up to make a score which takes both in account but gives more weight to the performance.

```
1 import java.time.LocalDate;
2 import java.time.Period;
4 class Employee {
      private String name:
      private String position;
      private double currentSalary;
      private double performance;
      private LocalDate hireDate;
      public Employee(String name, String position, double currentSalary, double performance, LocalDate hireDate) {
          this.name = name;
          this.position = position;
          this.currentSalary = currentSalary;
          this.performance = performance;
          this.hireDate = hireDate;
      public String getName() {
          return name;
```