

# Short Exercise: Salaries of a company

Mohammad Faraz Idris Siddiqui

**Q.1 Is your design ready to easily accept changes in how to calculate the total salary? for example for calculating the total salary taking into account taxes.**

**Ans-1.** In this design the total salary is computed in one place: `Worker.totalSalary()`, which currently returns `base + complement`. If the rule changes (e.g., subtracting taxes or adding bonuses), the formula can be updated in that method without changing other code.

If future assignments require swapping multiple rules without editing the `Worker` class, a simple extension is to introduce a small `SalaryCalculator` with a single method (e.g., `double compute(double base, double complement)`) and have the app use that when printing totals.

**Q.2 How to implement the case where I don't use all of the 100 "spaces" for workers? I.e my company only have 20.**

**Ans-2.** The implementation uses `ArrayList<Worker>`. This collection stores only the workers that are added, so a company with 20 workers will contain exactly 20 entries. There is no wasted fixed capacity to manage. If a fixed-size array were used instead, it would be necessary to track a separate count of valid workers to avoid printing empty slots.