

## Graded Assignment (FJP & Core Java)

**Project Name: Employee Records**

**Problem Statement:** An Organisation ABC wants to store a list of employee records.

An Employee will have the following attributes

- int id;
- String name;
- int age;
- int salary; // per annum
- String department;
- String city;

### Questions

1. Company wants to display all the details of employees in the organization.
2. Company wants to display the names of all the employees in Sorted alphabetical order.
3. Company wants to get the count of employees from each city.
4. Company wants to get the monthly salary of each employee.

**Use a suitable data structure to implement the above requirements.**

**Sample Output:** List of employees

S. No.	Name	Age	Salary(INR)	Department	Location
1	Aman	20	1,100,000	IT	Delhi
2	Bobby	22	500,000	HR	Bombay
3	Zoe	20	750,000	Admin	Delhi
4	Smitha	21	1,000,000	IT	Chennai
5	Smitha	24	1,200,000	HR	Bengaluru

- **Names of all employees in the sorted order are:**

[Aman, Bobby, Smitha, Smitha, Zoe]

- **Count of Employees from each city:**

{Bengaluru=1, Bombay=1, Chennai=1, Delhi=2}

- **Monthly Salary of employee along with their ID is:**

{1=91666.0, 2=41666.0, 3=62500.0, 4=83333.0, 5=100000.0}

### Instructions:

Follow the following coding standards in the above assignment.

- ✓ 1. Use setters and getters to set or get the values of each attribute.
2. Follow Naming conventions throughout the code.
3. Create a Separate class for each of the data structure implementations.
4. Throw **Illegal Argument Exception** if
  - ✓ • Employee Id < 0
  - ✓ • Name is empty or null
  - ✓ • Age < 0
  - ✓ • Salary < 0
  - ✓ • Department is empty or null
  - ✓ • City is empty or null.