

CODING ASSESSMENT

JAVA

1. EMPLOYEE MANAGEMENT SYSTEM

a. CREATE AN EMPLOYEE MANAGEMENT SYSTEM USING JDBC, HAVING THE EMPLOYEE CLASS WITH

```
class Employee
{
    int id;

    String name;

    int age;

    String gender;

    String department;

    int yearOfJoining;

    double salary;
```

and other classes like Repository, service, DAO as your choice.

b. INSERT THESE VALUES EMPLOYEE TABLE

111, "Jiya Brein", 32, "Female", "HR", 2011, 25000.0
122, "Paul Niksui", 25, "Male", "Sales And Marketing", 2015, 13500.0
133, "Martin Theron", 29, "Male", "Infrastructure", 2012, 18000.0
144, "Murali Gowda", 28, "Male", "Product Development", 2014, 32500.0
155, "Nima Roy", 27, "Female", "HR", 2013, 22700.0
166, "Iqbal Hussain", 43, "Male", "Security And Transport", 2016, 10500.0
177, "Manu Sharma", 35, "Male", "Account And Finance", 2010, 27000.0
188, "Wang Liu", 31, "Male", "Product Development", 2015, 34500.0
199, "Amelia Zoe", 24, "Female", "Sales And Marketing", 2016, 11500.0
200, "Jaden Dough", 38, "Male", "Security And Transport", 2015, 11000.5
211, "Jasna Kaur", 27, "Female", "Infrastructure", 2014, 15700.0
222, "Nitin Joshi", 25, "Male", "Product Development", 2016, 28200.0
233, "Jyothi Reddy", 27, "Female", "Account And Finance", 2013, 21300.0
244, "Nicolus Den", 24, "Male", "Sales And Marketing", 2017, 10700.5

255, "Ali Baig", 23, "Male", "Infrastructure", 2018, 12700.0

266, "Sanvi Pandey", 26, "Female", "Product Development", 2015, 28900.0

277, "Anuj Chettiar", 31, "Male", "Product Development", 2012, 35700.0

c. PERFORM THESE USING STREAM API

- How many male and female employees are there in the organization?
- Print the name of all departments in the organization?
- What is the average age of male and female employees?
- Get the details of highest paid employee in the organization?
- Get the names of all employees who have joined after 2015?
- Count the number of employees in each department?
- What is the average salary of each department?
- Get the details of youngest male employee in the product development department?
- Who has the most working experience in the organization?
- How many male and female employees are there in the sales and marketing team?
- What is the average salary of male and female employees?
- List down the names of all employees in each department?
- What is the average salary and total salary of the whole organization?
- Separate the employees who are younger or equal to 25 years from those employees who are older than 25 years?
- Who is the oldest employee in the organization? What is his age and which department he belongs to?

KOTLIN

1. PARKING LOT

Cities are becoming smarter to meet our needs, and parking spaces are an essential part of urban design. As a developer, you can help improve them. In this project, you will create a parking lot management program that keeps track of vacant spots and parked cars.

OR

2. CINEMA ROOM MANAGER

Cinema has been a part of the entertainment industry for a long time: a good movie is a way to escape reality and live through a variety of emotions. The best cinema experience you can get is probably in a cinema theatre. In this project, you will create an application that helps manage a cinema theatre: sell tickets, check available seats, see sales statistics, and more.