## CAP: 680 JAVA PROGRAMMING LANGUAGE LABORATORY

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## **ASSIGNMENT-5**

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GROUP: - 2

Q.1. a Company has four different departments containing 10 employee each of the department these employees are sharing some designation as well like manager, supervisor, store keeper, clerk, peon etc., Now being a boss of the company i would like to see who is the manager getting highest salary and who is the peon getting lowest salary.

```
Ans:
import java.util.ArrayList;
import java.util.List;
import java.util.Comparator;
public class Main {
  public static void main(String[] args) {
    // Create employees
    List<Employee> employees = new ArrayList<>();
    // Define the departments and designations
   String[] departments = {"Department A", "Department C", "Department B",
"Department D"};
    String[] designations = {"Manager", "Supervisor", "Store Keeper", "Clerk",
"Peon"};
    // Define the number of employees for each designation
```

```
int[] numEmployees = \{1, 2, 3, 2, 2\};
    // Create employees for each department and designation
    for (int i = 0; i < departments.length; <math>i++) {
      for (int j = 0; j < designations.length; <math>j++) {
        for (int k = 0; k < numEmployees[j]; k++) {
          String name = departments[i] + " - " + designations[j] + " " + (k + 1);
          int salary = (int) (Math.random() *50000 + 50000); // random salary
between 50,000 and 100,000
          employees.add(new Employee(name, departments[i], designations[j],
salary));
    // Find the manager with the highest salary
    Employee managerWithHighestSalary = employees.stream()
        .filter(e -> e.getDesignation().equals("Manager"))
        .max(Comparator.comparing(Employee::getSalary))
        .orElse(null);
    if (managerWithHighestSalary != null) {
      System.out.println("Manager with highest salary:
managerWithHighestSalary.getName() + '
managerWithHighestSalary.getSalary());
    }
    // Find the peon with the lowest salary
    Employee peonWithLowestSalary = employees.stream()
        .filter(e -> e.getDesignation().equals("Peon"))
```

```
.min(Comparator.comparing(Employee::getSalary))
       .orElse(null);
   if (peonWithLowestSalary != null) {
     System.out.println("Peon with lowest salary: " +
peonWithLowestSalary.getName() + " - $" + peonWithLowestSalary.getSalary());
   }
                                             VA (V)
 }
  private static class Employee {
   private String name;
    private String department;
    private String designation;
   private int salary;
    public Employee(String name, String department, String designation, int
salary) {
     this.name = name;
     this.department = department;
     this.designation = designation;
     this.salary = salary;
    }
   public String getName() {
     return name;
   public String getDepartment() {
     return department;
```

```
public String getDesignation() {
    return designation;
}

public int getSalary() {
    return salary;
}

public String toString() {
    return String.format("%s (%s, %s) - $%d", name, department, designation, salary);
}
}
```

```
PROBLEMS 15 OUTPUT DEBUG CONSOLE TERMINAL

Manager with highest salary: Department A - Manager 1 - $80061

Peon with lowest salary: Department C - Peon 2 - $50394

PS D:\VS CODE\JAVA PROGRAM\ASSIGNMENT>
```