

Code :-

```
// Employee.java
```

```
import java.util.*;
```

```
class Employee {
```

```
    private int id;
```

```
    private String name;
```

```
    private int seniority;
```

```
    private int[] performanceScores; // Last 5 years' scores
```

```
    private boolean departmentalExamPassed;
```

```
    private boolean hindiExamPassed;
```

```
    private boolean cccExamPassed;
```

```
// Constructor
```

```
    public Employee(int id, String name, int seniority, int[] performanceScores,  
                    boolean departmentalExamPassed, boolean hindiExamPassed, boolean  
cccExamPassed) {
```

```
        this.id = id;
```

```
        this.name = name;
```

```
        this.seniority = seniority;
```

```
        this.performanceScores = performanceScores;
```

```
        this.departmentalExamPassed = departmentalExamPassed;
```

```
        this.hindiExamPassed = hindiExamPassed;
```

```
        this.cccExamPassed = cccExamPassed;
```

```
    }
```

```
// Getters
```

```
    public int getId() { return id; }
```

```
    public String getName() { return name; }
```

```

public int getSeniority() { return seniority; }

public int[] getPerformanceScores() { return performanceScores; }

public boolean isDepartmentalExamPassed() { return departmentalExamPassed; }

public boolean isHindiExamPassed() { return hindiExamPassed; }

public boolean isCccExamPassed() { return cccExamPassed; }


// Helper Method

public double getAveragePerformance() {
    int sum = 0;
    for (int score : performanceScores) {
        sum += score;
    }
    return performanceScores.length > 0 ? sum / (double) performanceScores.length
: 0;
}
}

```

// PromotionSystem.java

```

class PromotionSystem {
    private List<Employee> employees;


    // Constructor

    public PromotionSystem() {
        employees = new ArrayList<>();
    }
}

```

```
// Add Employee
```

```
public void addEmployee(Employee employee) {  
    if (!employees.contains(employee)) {  
        employees.add(employee);  
    }  
}
```

```
// Generate Eligible Employees List
```

```
public List<Employee> getEligibleEmployees() {  
    List<Employee> eligibleEmployees = new ArrayList<>();  
    for (Employee emp : employees) {  
        if (isEligible(emp)) {  
            eligibleEmployees.add(emp);  
        }  
    }  
    return eligibleEmployees;  
}
```

```
// Eligibility Criteria
```

```
private boolean isEligible(Employee emp) {  
    return emp.getSeniority() >= 5 &&  
        emp.getAveragePerformance() >= 60 &&  
        emp.isDepartmentalExamPassed() &&  
        emp.isHindiExamPassed() &&  
        emp.isCccExamPassed();  
}
```

```
// Display Eligible Employees
```

```

public void displayEligibleEmployees() {
    List<Employee> eligible = getEligibleEmployees();
    if (eligible.isEmpty()) {
        System.out.println("No eligible employees found.");
    } else {
        System.out.println("Eligible Employees:");
        for (Employee emp : eligible) {
            System.out.println("ID: " + emp.getId() + ", Name: " + emp.getName());
        }
    }
}
}

```

// Main.java

```

public class Main {
    public static void main(String[] args) {
        PromotionSystem system = new PromotionSystem();

        // Example Employee Data
        system.addEmployee(new Employee(1, "John Doe", 6, new int[]{70, 75, 80, 85, 90}, true, true, true));
        system.addEmployee(new Employee(2, "Jane Smith", 4, new int[]{60, 65, 70, 55, 60}, true, true, true));
        system.addEmployee(new Employee(3, "Sam Wilson", 7, new int[]{50, 55, 60, 65, 70}, false, true, true));

        // Display Eligible Employees
        system.displayEligibleEmployees();
    }
}

```

```
}  
}
```

Output :-

Eligible Employees:

ID: 1, Name: John Doe