class Employee {

private String name;

private int empId;

private Salary salary;

private Address address;

public Employee(String name, int empId, double basicSalary, String city, String state, String country) {

this.name = name;

this.empId = empId;

this.salary = new Salary(basicSalary);

this.address = new Address(city, state, country);

}

public void displayDetails() {

System.out.println("Employee ID: " + empId);

System.out.println("Employee Name: " + name);

System.out.println("Basic Salary: " + salary.getBasicSalary());

System.out.println("Total Salary: " + salary.calculateTotalSalary());

System.out.println("Address: " + address.getFullAddress());

}

class Salary {

private double basicSalary;

private double bonus;

private double allowance;

private StringBuffer salaryDetails;

public Salary(double basicSalary) {

this.basicSalary = basicSalary;

this.bonus = 0.0;

this.allowance = 0.0;

this.salaryDetails = new StringBuffer("Basic: " + basicSalary);

}

public double getBasicSalary() {

return basicSalary;

}

public double calculateTotalSalary() {

// Assume some calculation for total salary, for example, adding bonuses and

// allowances.

bonus = basicSalary \* 0.1;

allowance = basicSalary \* 0.2;

double totalSalary = basicSalary + bonus + allowance;

salaryDetails.append(", Bonus: " + bonus);

salaryDetails.append(", Allowance: " + allowance);

return totalSalary;

}

public String getSalaryDetails() {

return salaryDetails.toString();

}

}

static class Address {

private String city;

private String state;

private String country;

public Address(String city, String state, String country) {

this.city = city;

this.state = state;

this.country = country;

}

public String getFullAddress() {

return city + ", " + state + ", " + country;

}

}

}

public class lab3 {

public static void main(String[] args) {

Employee employee = new Employee("John Doe", 101, 50000.0, "New York", "NY", "USA");

employee.displayDetails();

}

}