// Exercise 1: Employee Data Management

```
public class Employee {
  int employeeld;
  static String companyName;
  public static void main(String[] args) {
   Employee emp1 = new Employee();
   Employee emp2 = new Employee();
   emp1.employeeld = emp2.employeeld + 10;
   Employee.companyName = "TechCorp";
   emp2.employeeld = emp1.employeeld + 30;
   System.out.println("After modification:");
   System.out.println("emp1.employeeld: " + emp1.employeeld);
   System.out.println("emp2.employeeld: " + emp2.employeeld);
   System.out.println("Using emp1: " + emp1.companyName);
   System.out.println("Using emp2: " + emp2.companyName);
   System.out.println("Using Employee: " + Employee.companyName);
   emp1.companyName = "InnovateTech";
   System.out.println("\nAfter modifying static variable using emp1:");
   System.out.println("emp1.companyName: " + emp1.companyName);
   System.out.println("emp2.companyName: " + emp2.companyName);
   System.out.println("Employee.companyName: " + Employee.companyName);
 }
}
// Exercise 2: Student Enrollment Details
public class Student {
 int studentId;
  static String schoolName;
  public static void main(String[] args) {
   Student student1 = new Student();
   Student student2 = new Student();
```

```
student1.studentId = student2.studentId + 5;
   Student.schoolName = "Central High";
   student2.studentId = student1.studentId + 20;
   System.out.println("After modification:");
   System.out.println("student1.studentId: " + student1.studentId);
   System.out.println("student2.studentId: " + student2.studentId);
   System.out.println("Using student1: " + student1.schoolName);
   System.out.println("Using student2: " + student2.schoolName);
   System.out.println("Using Student: " + Student.schoolName);
   student1.schoolName = "Northview Academy";
   System.out.println("\nAfter modifying static variable using student1:");
   System.out.println("student1.schoolName: " + student1.schoolName);
   System.out.println("student2.schoolName: " + student2.schoolName);
   System.out.println("Student.schoolName: " + Student.schoolName);
 }
}
// Exercise 3: Bank Account Management
public class BankAccount {
 double accountBalance;
 static String bankName;
 public static void main(String[] args) {
   BankAccount account1 = new BankAccount();
   BankAccount account2 = new BankAccount();
   account1.accountBalance = account2.accountBalance + 150.0;
   BankAccount.bankName = "Global Bank";
   account2.accountBalance = account1.accountBalance + 300.0;
   System.out.println("After modification:");
   System.out.println("account1.accountBalance: " + account1.accountBalance);
   System.out.println("account2.accountBalance: " + account2.accountBalance);
   System.out.println("Using account1: " + account1.bankName);
```

```
System.out.println("Using account2: " + account2.bankName);
   System.out.println("Using BankAccount: " + BankAccount.bankName);
   account2.bankName = "First National Bank";
   System.out.println("\nAfter modifying static variable using account2:");
   System.out.println("account1.bankName: " + account1.bankName);
   System.out.println("account2.bankName: " + account2.bankName);
   System.out.println("BankAccount.bankName: " + BankAccount.bankName);
 }
}
// Exercise 4: Product Pricing Update
public class Product {
  float price;
  static String storeName;
  public static void main(String[] args) {
   Product prod1 = new Product();
   Product prod2 = new Product();
   prod1.price = prod2.price + 25.0f;
   Product.storeName = "SuperMart";
   prod2.price = prod1.price + 75.0f;
   System.out.println("After modification:");
   System.out.println("prod1.price: " + prod1.price);
   System.out.println("prod2.price: " + prod2.price);
   System.out.println("Using prod1: " + prod1.storeName);
   System.out.println("Using prod2: " + prod2.storeName);
   System.out.println("Using Product: " + Product.storeName);
   prod1.storeName = "MegaStore";
   System.out.println("\nAfter modifying static variable using prod1:");
   System.out.println("prod1.storeName: " + prod1.storeName);
   System.out.println("prod2.storeName: " + prod2.storeName);
    System.out.println("Product.storeName: " + Product.storeName);
```

```
}
```

// Exercise 5: Car Mileage and Manufacturer

```
public class Car {
  int mileage;
  static String manufacturer;
  public static void main(String[] args) {
   Car car1 = new Car();
   Car car2 = new Car();
   car1.mileage = car2.mileage + 50;
   Car.manufacturer = "AutoMaker Inc.";
   car2.mileage = car1.mileage + 100;
   System.out.println("After modification:");
   System.out.println("car1.mileage: " + car1.mileage);
   System.out.println("car2.mileage: " + car2.mileage);
   System.out.println("Using car1: " + car1.manufacturer);
   System.out.println("Using car2: " + car2.manufacturer);
   System.out.println("Using Car: " + Car.manufacturer);
   car2.manufacturer = "Speedster Co.";
   System.out.println("\nAfter modifying static variable using car2:");
   System.out.println("car1.manufacturer: " + car1.manufacturer);
   System.out.println("car2.manufacturer: " + car2.manufacturer);
   System.out.println("Car.manufacturer: " + Car.manufacturer);
 }
}
```