import java.lang.ref.Cleaner;

class Student {

private String name;

private int rollNo;

private static final Cleaner cleaner = Cleaner.create();

private final Cleaner.Cleanable cleanable;

public Student(String name, int rollNo) {

this.name = name;

this.rollNo = rollNo;

this.cleanable = cleaner.register(this, new CleanupTask(name));

}

public void display() {

System.out.println("Student Name: " + name + ", Roll No: " + rollNo);

}

private static class CleanupTask implements Runnable {

private final String name;

CleanupTask(String name) {

this.name = name;

}

@Override

public void run() {

System.out.println("Cleaning resources for: " + name);

}

}

}

public class Main {

public static void main(String[] args) {

Student s1 = new Student("Alice", 101);

Student s2 = new Student("Bob", 102);

s1.display();

s2.display();

// Assigning null so objects become eligible for garbage collection

s1 = null;

s2 = null;

// Requesting Garbage Collection

System.gc();

}

}