import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

class Company {

String name;

public Company(String name) {

this.name = name;

}

}

class Student {

String name;

int rollNumber;

public Student(String name, int rollNumber) {

this.name = name;

this.rollNumber = rollNumber;

}

}

class PlacementCell {

List<Company> companies;

List<Student> students;

public PlacementCell() {

this.companies = new ArrayList<>();

this.students = new ArrayList<>();

}

public void addCompany(Company company) {

companies.add(company);

System.out.println("Company added: " + company.name);

}

public void addStudent(Student student) {

students.add(student);

System.out.println("Student added: " + student.name);

}

public void displayPlacementDetails() {

System.out.println("\nPlacement Details:");

System.out.println("Companies:");

for (Company company : companies) {

System.out.println("- " + company.name);

}

System.out.println("\nStudents:");

for (Student student : students) {

System.out.println("- " + student.name + " (Roll Number: " + student.rollNumber + ")");

}

}

}

public class PlacementCellApp {

public static void main(String[] args) {

PlacementCell placementCell = new PlacementCell();

Scanner scanner = new Scanner(System.in);

while (true) {

System.out.println("\nPlacement Cell Management System");

System.out.println("1. Add Company");

System.out.println("2. Add Student");

System.out.println("3. Display Placement Details");

System.out.println("4. Exit");

System.out.print("Enter your choice: ");

int choice = scanner.nextInt();

scanner.nextLine(); // Consume the newline character

switch (choice) {

case 1:

System.out.print("Enter Company Name: ");

String companyName = scanner.nextLine();

placementCell.addCompany(new Company(companyName));

break;

case 2:

System.out.print("Enter Student Name: ");

String studentName = scanner.nextLine();

System.out.print("Enter Roll Number: ");

int rollNumber = scanner.nextInt();

placementCell.addStudent(new Student(studentName, rollNumber));

break;

case 3:

placementCell.displayPlacementDetails();

break;

case 4:

System.out.println("Exiting the Placement Cell Management System. Goodbye!");

System.exit(0);

break;

default:

System.out.println("Invalid choice. Please enter a valid option.");

}

}

}

}