**CODE**

**STUDENT CLASS**

package PackageEngineering;

public class Student {

    private int rollNo;

    private String subjectName;

    private String studentName;

    private int totalMarks;

    public Student(int rollNo, String subjectName, String studentName, int totalMarks) {

        this.rollNo = rollNo;

        this.subjectName = subjectName;

        this.studentName = studentName;

        this.totalMarks = totalMarks;

    }

    public void display() {

        System.out.println("Roll No: " + rollNo);

        System.out.println("Subject Name: " + subjectName);

        System.out.println("Student Name: " + studentName);

        System.out.println("Total Marks: " + totalMarks);

        System.out.println("--------------------");

    }

    public int getTotalMarks() {

        return totalMarks;

    }

}

**MARKS CLASS**

package PackageEngineering;

import java.util.Arrays;

public class Marks {

    public static void sort(Student[] students) {

        Arrays.sort(students, (a, b) -> Integer.compare(a.getTotalMarks(), b.getTotalMarks()));

    }

}

**MAIN CLASS**

import PackageEngineering.Student;

import PackageEngineering.Marks;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of students: ");

        int numStudents = scanner.nextInt();

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

        Student[] students = new Student[numStudents];

        for (int i = 0; i < numStudents; i++) {

            System.out.println("Enter details for Student " + (i + 1) + ":");

            System.out.print("Roll No: ");

            int rollNo = scanner.nextInt();

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

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

            String studentName = scanner.nextLine();

            System.out.print("Subject Name: ");

            String subjectName = scanner.nextLine();

            System.out.print("Total Marks: ");

            int totalMarks = scanner.nextInt();

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

            students[i] = new Student(rollNo, subjectName, studentName, totalMarks);

        }

        System.out.println("Original Student Records:");

        for (Student student : students) {

            student.display();

        }

        Marks.sort(students);

        System.out.println("Student Records Sorted by Total Marks:");

        for (Student student : students) {

            student.display();

        }

    scanner.close();

    }

}

**Output:**



