**4.INTERFACE – MARKS**

**import java.util.Scanner;**

**interface TenthStandard {**

**void display10thDetails();**

**}**

**interface TwelfthStandard {**

**void display12thDetails();**

**}**

**class Student {**

**String name;**

**int regNo;**

**Student(String name, int regNo) {**

**this.name = name;**

**this.regNo = regNo;**

**}**

**}**

**class TenthStandardStudent implements TenthStandard {**

**Student student;**

**int[] marks;**

**TenthStandardStudent(String name, int regNo, int[] marks) {**

**this.student = new Student(name, regNo);**

**this.marks = marks;**

**}**

**public void display10thDetails() {**

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

**System.out.println("Registration No: " + student.regNo);**

**System.out.println("10th Standard Marks:");**

**for (int i = 0; i < marks.length; i++) {**

**System.out.println("Subject " + (i + 1) + ": " + marks[i]);**

**}**

**}**

**}**

**class TwelfthStandardStudent implements TwelfthStandard {**

**Student student;**

**int[] marks;**

**TwelfthStandardStudent(String name, int regNo, int[] marks) {**

**this.student = new Student(name, regNo);**

**this.marks = marks;**

**}**

**public void display12thDetails() {**

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

**System.out.println("Registration No: " + student.regNo);**

**System.out.println("12th Standard Marks:");**

**for (int i = 0; i < marks.length; i++) {**

**System.out.println("Subject " + (i + 1) + ": " + marks[i]);**

**}**

**}**

**}**

**public class Main {**

**public static void main(String[] args) {**

**Scanner scanner = new Scanner(System.in);**

**System.out.print("Enter name for 10th Standard Student: ");**

**String name10th = scanner.nextLine();**

**System.out.print("Enter registration number for 10th Standard Student: ");**

**int regNo10th = scanner.nextInt();**

**System.out.print("Enter number of subjects for 10th Standard Student: ");**

**int numSubjects10th = scanner.nextInt();**

**int[] marks10th = new int[numSubjects10th];**

**for (int i = 0; i < numSubjects10th; i++) {**

**System.out.print("Enter marks for subject " + (i + 1) + ": ");**

**marks10th[i] = scanner.nextInt();**

**}**

**TenthStandardStudent student10th = new TenthStandardStudent(name10th, regNo10th, marks10th);**

**scanner.nextLine();**

**System.out.print("Enter name for 12th Standard Student: ");**

**String name12th = scanner.nextLine();**

**System.out.print("Enter registration number for 12th Standard Student: ");**

**int regNo12th = scanner.nextInt();**

**System.out.print("Enter number of subjects for 12th Standard Student: ");**

**int numSubjects12th = scanner.nextInt();**

**int[] marks12th = new int[numSubjects12th];**

**for (int i = 0; i < numSubjects12th; i++) {**

**System.out.print("Enter marks for subject " + (i + 1) + ": ");**

**marks12th[i] = scanner.nextInt();**

**}**

**TwelfthStandardStudent student12th = new TwelfthStandardStudent(name12th, regNo12th, marks12th);**

**student10th.display10thDetails();**

**System.out.println();**

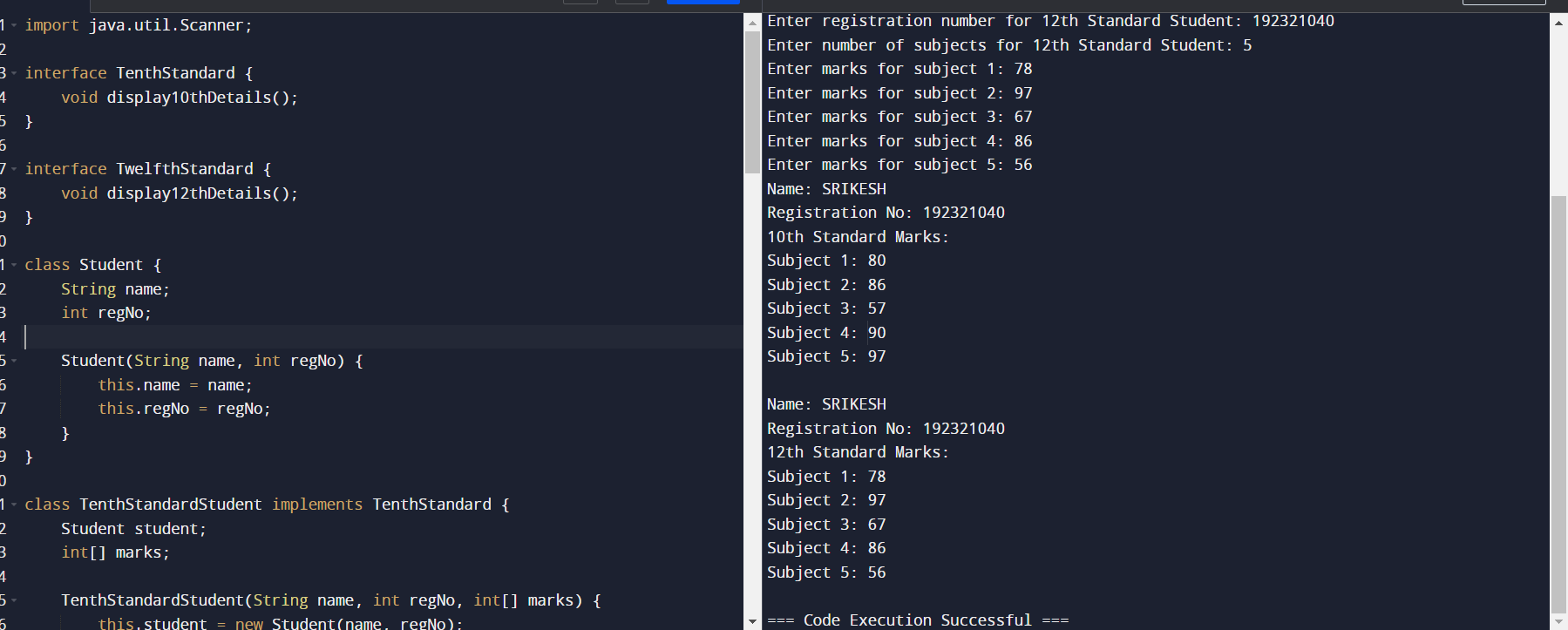
**student12th.display12thDetails();**

**scanner.close();**

**}**

**}**

**OUTPUT:**

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