**Task 2**

import java.util.Scanner;

public class StudentStates {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int numberOfSubjects;

System.out.println("Welcome to the Grade Calculator!");

// Input: Take the number of subjects

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

numberOfSubjects = sc.nextInt();

// Array to store marks for each subject

int[] marks = new int[numberOfSubjects];

// Input: Take marks obtained in each subject

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

System.out.print("Enter the marks obtained in subject " + (i + 1) + ": ");

marks[i] = sc.nextInt();

}

// Calculate Total Marks

int totalMarks = 0;

for (int mark : marks) {

totalMarks += mark;

}

// Calculate Average Percentage

double averagePercentage = (double) totalMarks / numberOfSubjects;

// Grade Calculation

char grade;

if (averagePercentage >= 90) {

grade = 'O';

} else if (averagePercentage >= 80) {

grade = 'A';

} else if (averagePercentage >= 70) {

grade = 'B';

} else if (averagePercentage >= 60) {

grade = 'C';

} else {

grade = 'D';

}

// Display Results

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

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

System.out.println("Average Percentage: " + averagePercentage + "%");

System.out.println("Grade: " + grade);

sc.close();

}

}