TASK 2:

STUDENT GRADE CALCULATOR

Input: Take marks obtained (out of 100) in each subject.

Calculate Total Marks: Sum up the marks obtained in all subjects.

Calculate Average Percentage: Divide the total marks by the total number of subjects to get the average percentage.

Grade Calculation: Assign grades based on the average percentage achieved.

Display Results: Show the total marks, average percentage, and the corresponding grade to the user .

Code:

import java.util.\*;

public class StudentGradeCalculator {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

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

int total\_subjects = sc.nextInt();

sc.nextLine(); // consume the newline character

if (total\_subjects <= 0) {

System.out.println("Invalid number of subjects");

sc.close();

return;

}

double total\_marks = 0;

for (int i = 1; i <= total\_subjects; i++) {

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

double marks = sc.nextDouble();

while (marks < 0 || marks > 100) {

System.out.println("Enter the marks between 0 and 100.");

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

marks = sc.nextDouble();

}

total\_marks += marks;

}

double averagePercentage = total\_marks / total\_subjects;

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

if (averagePercentage >= 95)

{

System.out.println("Grade Assigned: A+");

}

else if (averagePercentage >= 90)

{

System.out.println("Grade Assigned: A");

}

else if (averagePercentage >= 85)

{

System.out.println("Grade Assigned: B+");

}

else if (averagePercentage >= 80)

{

System.out.println("Grade Assigned: B");

}

else if (averagePercentage >= 70)

{

System.out.println("Grade Assigned: C");

}

else if (averagePercentage >= 35 && averagePercentage <= 69)

{

System.out.println("Grade Assigned: D");

}

else

{

System.out.println("Grade Assigned: Fail");

}

sc.close();

}

}

Output:

