**RIDHWAN MWANGOLA**

**151458**

**LOOPS QUESTION 1**

import java.util.Scanner;

public class StudentGrades {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Ask for student's full name

System.out.print("Enter student's full name: ");

String fullName = scanner.nextLine();

// Initialize arrays to store subject names and marks

String[] subjects = new String[5];

int[] marks = new int[5];

// Ask for subject names and marks

for (int i = 0; i < 5; i++) {

System.out.print("Enter subject " + (i + 1) + " name: ");

subjects[i] = scanner.nextLine();

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

marks[i] = Integer.parseInt(scanner.nextLine());

}

scanner.close();

// Output the student's name, subjects, marks, and grades

System.out.println("\nStudent's Name: " + fullName);

System.out.println("Subject\t\tMarks\tGrade");

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

for (int i = 0; i < 5; i++) {

String grade = calculateGrade(marks[i]);

System.out.println(subjects[i] + "\t\t" + marks[i] + "\t" + grade);

}

}

// Helper method to calculate the grade based on marks

private static String calculateGrade(int marks) {

if (marks >= 90) {

return "A+";

} else if (marks >= 80) {

return "A";

} else if (marks >= 70) {

return "B";

} else if (marks >= 60) {

return "C";

} else if (marks >= 50) {

return "D";

} else {

return "F";

}

}

}