ADVANCED OBJECT ORIENTED PROGRAMING

ASSIGMENT

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modify your program such that it evaluates the value of average marks and print grade correspond to marks obtained in adding to printing either “pass” or “fail”. Given that pass marks =75.

Possible grades

A is equal or greater than 93 passed exam

Bis equal or greater than 85 passed exam

C equal or greater than 80 passed exam

D is equal or greater than 75 passed exam

E less than 75 fail exam

**ANSWE**R

public class Grade Evaluator {

public static void main(String[] args) {

int[] marks = {90, 85, 78, 92, 88};

evaluateGradeAndPassStatus(marks);

}

public static void evaluateGradeAndPassStatus (int[] marks) {

// Calculate the average marks

double average Marks = calculate Average(marks);

// Determine the grade and pass status

String grade;

String pass Status;

if (average Marks >= 93) {

grade = "A";

pass Status = "passed";

} else if (average Marks >= 85) {

grade = "B";

pass Status = "passed";

} else if (average Marks >= 80) {

grade = "C";

pass Status = "passed";

} else if (average Marks >= 75) {

grade = "D";

pass Status = "passed";

} else {

grade = "E";

pass Status = "fail";

}

// Print the results

System.out.printf("Average Marks: %.2f%n", average Marks);

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

System.out.println("Status: " + pass Status);

}

public static double calculate Average(int[] marks) {

int sum = 0;

for (int mark : marks) {

sum += mark

}

return (double) sum / marks. Length;

}

}