

Programme Name: \_\_\_\_\_\_\_\_**BCS HONS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Course Code: \_\_**CSC 2515**\_\_\_\_\_\_\_\_

Course Name: \_\_\_\_\_\_\_\_**Object Oriented Programming**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Internal Examination**

Date of Submission: \_\_\_\_\_\_**01/19/2021**\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submitted By: Submitted To:**

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IUKL ID: **041902900028** Department**: LMS**

Semester**: Third Semester**

Intake**: September 2019**

Question 1

Answer:

import javax.security.auth.Subject;

import java.util.Scanner;

import java.text.DecimalFormat;

class MarkStore { public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

final int STUDENTS = 2;

final int SUBJECTS = 3;

double[][] marks = new double[STUDENTS][SUBJECTS];

Scanner sc = new Scanner(System.in);

System.out.println("Enter three marks for:");

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

{

System.out.println("Student " + (i + 1) + ":");

for (int j = 0; j < marks[0].length; j++)

{ System.out.println("Assignment " + (j + 1) + ":");

marks[i][j] = sc.nextDouble();

} }

System.out.println("\nTotal and average for each student");

totalAverageStd(marks);

System.out.println("\nTotal and average for each Assignment");

totalAverageAssignments(marks);

}

static void totalAverageStd(double[][] scores)

{

double totalForStudent1 = 0;

for (double i : scores[0])

{ totalForStudent1 += i;

}

double totalForStudent2 = 0;

for (double i : scores[1])

{ totalForStudent2 += i;

}

double avgStd1 = totalForStudent1 / scores[0].length; double avgStd2 = totalForStudent2 / scores[0].length;

DecimalFormat df = new DecimalFormat(".##");

System.out.println("Student 1: Total scores: " + totalForStudent1 + "\t\tAverage: " + df.format(avgStd1));

System.out.println("Student 2: Total scores: " + totalForStudent2 + "\t\tAverage: " + df.format(avgStd2));

} static void totalAverageAssignments(double[][] scores)

{

double[][] totalForAssignment = new double[scores[0].length][2];

for (int i = 0; i < totalForAssignment.length; i++)

{

for (double[] score : scores)

{

totalForAssignment[i][0] += score[i];

} }

for (int i = 0; i < totalForAssignment.length; i++)

{

totalForAssignment[i][1] = totalForAssignment[i][0] / 2; }

DecimalFormat df = new DecimalFormat(".##");

for (int i = 0; i < totalForAssignment.length; i++)

{ System.out.println("Assignment " + (i + 1) + ": Total scores: " + totalForAssignment[i][0] + "\tAverage: " + df.format(totalForAssignment[i][1]));

} } }