



SUNWAY

INT'L BUSINESS SCHOOL



Programme Name: **BCS HONS**

Course Code: **CSC 2515**

Course Name: **Object Oriented Programming**

Internal Examination

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Submitted To:

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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]));
} } }

```