JOSE MANUEL RINCONEZ AMAYA – JAVA MIDTERM PROJECT

**Title:** School Grading System

Designing of statistical system for school.

I want to create a statistical grading system for the students' test scores.

Assuming the school uses a grading system based on numbers ranging from 0 to 100, with different ranges with labels that emphasize student performance:

(90 - 100] Excellent

(80 - 90] Outstanding

(60 - 80] Regular

(30 - 60] Insufficient

[0 - 30] Poor

The system will generate statistical data that can help teachers identify groups or students with difficulties. Currently we have the information of the test scores for each of the students in class E-0922, the system should generate statistical data from the following information:

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Gender** | **Module** | **Grade** |
| Name1 | f | Introduction To CS | 82.5 |
| Name2 | m | Introduction To CS | 70.45 |
| Name3 | f | OOP | 90.6 |
| Name4 | m | OOP | 63.9 |

The Java program will be able to answer the following questions:

1.What is the variance of the grades for the entire group?

2. What percentage of the exams were Regular?

3.What is the subject with the highest number of exams passed?

4.Which is the student with the best performance for the subject Introduction To CS

?

|  |  |
| --- | --- |
| **Student** | **ID** |
| Jose | 1 |
| Student2 | 2 |
| Student3 | 3 |
| Student4 | 4 |
| Student5 | 5 |
| Student6 | 6 |

|  |  |
| --- | --- |
| **Subject** | **ID** |
| Introduction to CS | 1 |
| Problem Solving | 2 |
| OOP | 3 |

|  |  |  |
| --- | --- | --- |
| **Gender** | **CODE** |  |
| m | 0 |  |
| f | 1 |  |

Inputs to try it

18

1.0 0.0 1.0 76.3

1.0 0.0 2.0 54.4

1.0 0.0 3.0 17.5

2.0 0.0 1.0 3.6

2.0 0.0 2.0 76.7

2.0 0.0 3.0 46.4

3.0 0.0 1.0 56.0

3.0 0.0 2.0 50.0

3.0 0.0 3.0 5.2

4.0 1.0 1.0 88.5

4.0 1.0 2.0 91.1

4.0 1.0 3.0 58.2

5.0 1.0 1.0 22.2

5.0 1.0 2.0 19.1

5.0 1.0 3.0 11.9

6.0 1.0 1.0 74.0

6.0 1.0 2.0 13.7

6.0 1.0 3.0 88.8