**Assignment 5 – Programming Fundamentals**

**New Group 6**

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Following the instructions we created a folder called Java-Assignment5. Inside the folder is our java file as the print shows:

A screen shot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

In order now, is the creation of each part of the Assignment according to Instructions (number of items expressed below), above we had item 1 and 2a

Inside the main, we created the public main (Item 2b):

A screenshot of a computer program

Description automatically generated

Item 3 requests the creation of Studemt.java which can be seen in the first print we put here, but again it is below:

A screen shot of a computer program

Description automatically generated

Item 3a is the public class Student that is in the above print. We also have not created main in this one as requested in item 3b.

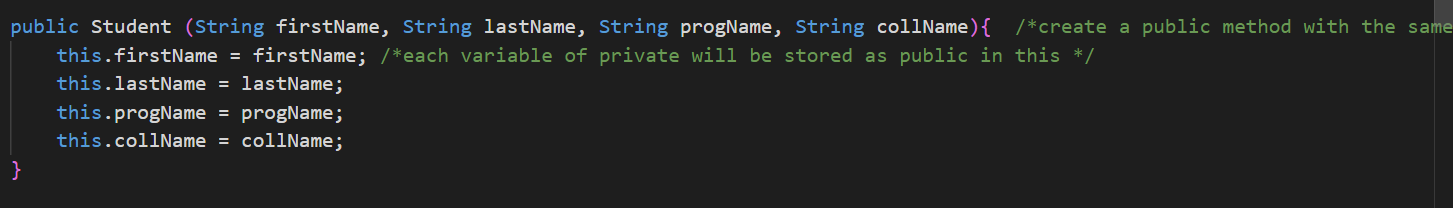
Part1: Student.java

Item 1 is creating the 6 private properties.

A screen shot of a computer program

Description automatically generated

Item 2 is creating a class with 4 parameters (letters a to d):



Item 3 is creating a class with 6 parameters (letters a to f):

A computer screen with text

Description automatically generated

Item 4 is creating the same one but without parameters:

A screen shot of a computer

Description automatically generated

Item 5 request to create getters and setter for all the class (letters a and b):

A screen shot of a computer program

Description automatically generated

We only put the first 2 in here just to exemplify.

Item 6 requests to create a new method to calculate the average of the student:

A computer screen with text

Description automatically generated

Item 7 is to create a method to print the user’s grade based on grades from A to F that depend on the value they reached.

A computer screen shot of a program code

Description automatically generated

Part2 – Main Java

Item 1 a, b, c

A screen shot of a computer

Description automatically generated

We created student 1 with the 4 values, student2 with the 6 values and student3 received each one using setter after it was started as empty.

Item 2 calling the print for each of the 3 students:

A screen shot of a computer code

Description automatically generated

Below is the print of the 2 first ones

A computer screen shot of a program

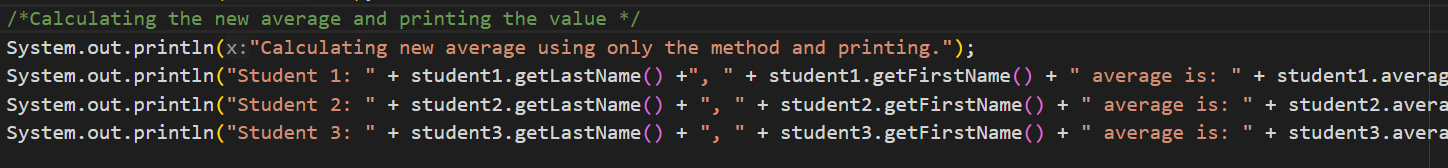
Description automatically generated

Item 3 requests to set a new value for mark1 and mark2 for each of the students:

A screen shot of a computer program

Description automatically generated

Item 4 is to calculate the average and find a way to print the average of the students:



The result of each of the lines:

A black background with white text

Description automatically generated

Item 5 is to create a new student and request the user to input the information and in the end calculate the average and print

A screen shot of a computer program

Description automatically generated

And the result for a generic student:

A computer screen shot of a black screen

Description automatically generated

Item 6 requests to encapsulate the code with a try and catch which can be seen in the first print and now the closure with catch:

A screen shot of a computer error

Description automatically generated