COP3022-Intermediate - Project 9

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Implement a generic class named "Score". This class will have two instance variables. A String for the name of the student, and a generic type for the score variable. Thus, this generic class will have one type variable. For the sake of simplicity, assume that the score can be either String or Double. Nothing else.

Implement getter and setter methods for the two fields; name and score.

Implement toString method to display the scores formatted.

Write a P9 class with main method. Insert 5 Score objects into an ArrayList. When inserting, use the parameterized constructor of Score class. Use the values below;

```
("Donatello", 3.0));
("April", "Five"));
("Raphael", 3.5));
("Shredder", "One"));
("Splinter", "Seven"));
```

Using a loop (enhanced for loop is recommended), display each student's score. Also calculate and display the average score of numerical scores.

Hint; use **instanceof** . For instance; **if**(someObject **instanceof** Double)

Your program must work with any input correctly. Do not assume 5 inputs only. When taking screenshot, use the values given above. Your screenshots must look the same as the screenshot below, except your full name. If you submit your project before 6:00 am on Friday morning, then I will give you feedback in e-learning.

Sample output

Program written by Bilal Gonen.

Name: Donatello Score: 3.0 Name: April Score: Five Name: Raphael Score: 3.5 Name: Shredder Score: One Name: Splinter Score: Seven

Average of numerical scores: 3.25

Submission

- Submit 3 files (P9.java, Score.java, and 1 screenshot).
- Follow submission instructions in e-learning.