**Java Equals and Unit 1 Code**

Laurence T. Burden

Purdue Global University

IN300: Data Governance

John Brooks

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**The difference in Java Comparison Operations**

There are a couple of differences in Java’s == operator and .equals(). The biggest difference is that the == operator evaluates the memory address of each object and .equals() checks value (2020). The == operator requires both objects to point to the same physical memory address to return true. The .equals() method will return true for any variable that contains the same content as the initial variable.

**Language Comparison**

The language I preferred for this project was Python. I have experience with Python and had no issues getting my code to run. The setup of PyCharm was fast and easy. The IDE also made it easy to understand how to run an individual file, as well.

Java gave me the most issues out of the three languages. Writing the Java code went smoothly, but I do not care for the length of some functions. Such as printing a line to the console. The Java IDE would not compile and run my program easily, though. It encountered an error that stated unnamed packages were not allowed in the module. After some research, I found that deleting the pre-made module-info.java file corrected the issue.

**Unit 1 Java Code and Results**

**Graphical user interface, text, application

Description automatically generated**

**Unit 1 Python Code and Results**

**Text

Description automatically generated**

**Unit 1 R Code and Results**

**Text, application

Description automatically generated**

References

*Difference between == and .equals() method in Java*. GeeksforGeeks. (2020, March 30). https://www.geeksforgeeks.org/difference-equals-method-java/.