Supplementary notes for JAVA1-MAR24

JAVA1-MAR24

GitHub repo for code
https://github.com/lavenderlens/JAVA1-MAR24

GitHub repo for course materials
https://github.com/stayahead-training/java-developer
Access will be revoked in a matter of weeks when next delivery by me runs.

To download offline copy:
Just press the big green button on the front marked **< > Code** and select Download as Zip file.

Individual topics notes:
These are ad-hoc references we used during the course.

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JAVA ACRONYMS

java
the Java executable
runs Bytecode .class files
Bytecode is universal, cross-platform

javac
The Java compiler, part of the JDK or SDK

JDK
Java Development Kit

SDK
Standard Development Kit

compiles .java files into .class files

JRE
The Java runtime executable, java
is part of the JRE, or Java Runtime Environment
the JRE is platform-specific (Mac, Windows, Linux etc)
runs class files by creating a JVM

JVM
Java Virtual Machine
every running script has its own JVM

JIT
The JVM uses JIT (Just In Time) interpretation
to run just the amount of code that is needed ahead of time

String and number formatting:

%d in string formatting

This stands for Decimal Integer - Not double!
Use **%f** for ALL floating-point numbers, float OR double type.

https://www.geeksforgeeks.org/format-specifiers-in-java/

https://www.geeksforgeeks.org/java-string-format-method-with-examples/

https://www.baeldung.com/string/format

Unit Testing in JUnit working with assertions enabled:

https://www.baeldung.com/junit-assertions

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hashCode()

https://www.baeldung.com/java-equals-hashcode-contracts

https://www.geeksforgeeks.org/hashing-in-java/

Java records

https://www.baeldung.com/java-record-keyword

INHERITANCE:

UML diagrams: under project /_12-inheritance-part3
- **UML and software engineering to determine JAVA OO classes**
- **Drawio (www.diagrams.net) extension:**
- **https://plugins.jetbrains.com/plugin/15635-diagrams-net-integration**

1. Install an IDE if you don't have one:

Select an IDE

2. Open your IDE and press ⌘ , to open the IDE settings.
3. Select **Plugins**, click and then click **Install Plugin from Disk**.
4. Select the plugin archive file and click **OK**.
5. Click **OK** to apply the changes and restart your IDE if prompted.

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That's all! Happy Hacking!