Local Development Environment Part 1 Notes

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1 What to Expect

2 T.M.A - Too many acronyms

- **JDK**
  - Is called **Java SE Development Kit**
  - Is a set of tools specifically for developing Java SE Applications
  - Is capable of creating and compiling programs

- **JRE**
  - Is called **Java Runtime Environment**
  - Is a minimum set of tools that allow local Java programs to execute
  - Contains Java Virtual Machine, Java Class Library, and the **java** terminal command

3 Quiz 1

1. When talking about Java SE, what does the SE stand for?

   A. Strict Evaluation

   B. Something Else

   C. String Emulation

   D. Standard Edition

   Answer: D

2. We use the Java SE API, which is the set of libraries we use to build applications. What does API stand for?

   A. Artificial Programmed Intelligence
   B. Application Programmer Interface
   C. Apptitude Programmed Interface

   Answer: B

3. Please fill in the correct answer in each blank provided below.

   A minimum set of tools that allow local Java programs to execute is also known as the Java ___ Environment

   Answer: Runtime

4. If you are planning on developing applications locally you need only to install the JRE (Java Runtime Environment).

   A. True
   B. False

   Answer: B

5. A grouping of tools that allow you to create software locally on your machine. This is sometimes shortened to be called devkit.

   A. SDK
   B. JVM
   C. SE

   Answer: A

6. The extended subset of the tools used to develop Java SE applications uses the acronym JDK. What does that stand for?

   A. Java Development Kit
   B. Java Developed Kernel
   C. Just Delicious Kale
   D. Java Design Kinetics

   Answer: A

4 The Java Virtual Machine

- $C \rightarrow$ has to compile on each machine

- $JAVA \rightarrow$ Can compile once and be used anywhere

  - Is possible due to **JVM**, or the **java virtual machine**

5 Quiz 2

1. System.____("java.class.path");

   Answer: getProperty

2. The default classpath for the java program is:

   A. / (The root directory on the machine)
   B. /java/jar/jar (The default location for Jar Jar files)
   C. (Meaning the user's home directory)
   D. . (Meaning the current working directory)

   Answer: A
   Compiled Java Bytecode can run on any machine with a JVM implementation, without the need for the original source code.

   A. True
   B. False

   Answer: A