ASSIGNMENT NO.1

1. Reading Assignment: A Short History of Java

- Task: Read about the history and development of Java.
- Link: http://sunsite.uakom.sk/sunworldonline/swol-07-1995/swol-07-java.html

2. Reading Assignment: Java Language Features

- Task: Learn about the main features of Java.
- Link: https://javaalmanac.io/features/

3. Reading Assignment: Which Version of JDK Should I Use?

- Task: Find out which JDK version is right for you.
- Link: https://whichjdk.com/

4. Reading Assignment: JDK Installation Directory Structure

- Task: Understand the folder structure and files in the JDK installation.
- Link: https://docs.oracle.com/javase/8/docs/technotes/tools/windows/jdkfiles.html

5. Reading Assignment: About Java Technology

- Task: Read about the basics of Java technology and its components.
- **Link**: https://docs.oracle.com/javase/tutorial/getStarted/intro/definition.html

6. Coding Assignments

1. **Hello World Program**: Write a Java program that prints "Hello World!!" to the console.

```
class Demo{
public static void main(String args[]){
System.out.println("Hello World!!");
}
```

C:\Users\Admin\Desktop\New folder (2)>java Demo Hello World!!

2. **Compile with Verbose Option**: Compile your Java file using the -verbose option with javac. Check the output.

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```
C:\Users\Admin\Desktop\New folder (2)>javac -verbose Demo.java
[parsing started SimpleFileObject[C:\Users\Admin\Desktop\New folder (2)\Demo.java]]
[parsing completed 16ms]
[loading /modules/java.base/module-info.class]
[loading /modules/jdk.internal.ym.ci/module-info.class]
[loading /modules/jdk.internal.jvmstat/module-info.class]
[loading /modules/jdk.accessibility/module-info.class]
[loading /modules/jdk.accessibility/module-info.class]
[loading /modules/jdk.dynalink/module-info.class]
[loading /modules/jdk.security.jgss/module-info.class]
[loading /modules/jdk.security.auth/module-info.class]
[loading /modules/jdk.security.sasl/module-info.class]
[loading /modules/jdk.net/module-info.class]
[loading /modules/jdk.internal.opt/module-info.class]
[loading /modules/jdk.accmpiler/module-info.class]
[loading /modules/java.compiler/module-info.class]
[loading /modules/jdk.graal.compiler/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.management/module-info.class]
```

3. **Inspect Bytecode**: Use the javap tool to examine the bytecode of the compiled .class file. Observe the output.

- 7. Reading Assignment: The JVM Architecture Explained
 - Task: Learn about how the Java Virtual Machine (JVM) works.
 - Link: https://dzone.com/articles/jvm-architecture-explained
- 8. Reading Assignment: The Java Language Environment: Contents
 - Task: Explore the content and features of the Java language environment.
 - Link: https://www.oracle.com/java/technologies/language-environment.html