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.
- 2. **Compile with Verbose Option**: Compile your Java file using the -verbose option with javac. Check the output.
- 3. **Inspect Bytecode**: Use the javap tool to examine the bytecode of the compiled .class file. Observe the output.

ASSIGNMENT NO.1

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.4780]
(c) Microsoft Corporation. All rights reserved.
D:\Java cdac>javac Hello.java
D:\Java_cdac>javac Hello
error: Class names, 'Hello', are only accepted if annotation processing is explicitly requested
D:\Java_cdac>java Hello
Hello, World!
D:\Java_cdac>javap -c Hello
Compiled from "Hello.java"
class Hello {
  Hello();
     Code:
        0: aload_0
        1: invokespecial #1
4: return
                                           // Method java/lang/Object."<init>":()V
  public static void main(java.lang.String[]);
     Code:
        0: getstatic #7
3: ldc #13
5: invokevirtual #15
                                                     // Field java/lang/System.out:Ljava/io/PrintStream;
// String Hello, World!
// Method java/io/PrintStream.println:(Ljava/lang/String;)V
```

ASSIGNMENT NO.1

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