

OOPJ Assignment1

Read Again (Links):

<https://docs.oracle.com/javase/tutorial/getStarted/intro/definition.html>

<https://dzone.com/articles/jvm-architecture-explained>

<https://docs.oracle.com/javase/8/docs/technotes/tools/windows/jdkfiles.html>

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.

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

Verbose provides information about the loading of jdk modules while compiling the file.888

C:\Windows\System32\cmd.exe

```
C:\Users\reddy\Desktop\CDAC Labs\OOPJ Module\Assignment 1>javac -verbose HelloWorld.java
[parsing started SimpleFileObject[C:\Users\reddy\Desktop\CDAC Labs\OOPJ Module\Assignment 1\HelloWorld.java]]
[parsing completed 13ms]
[loading /modules/jdk.crypto.cryptoki/module-info.class]
[loading /modules/jdk.nio.mapmode/module-info.class]
[loading /modules/java.rmi/module-info.class]
[loading /modules/java.xml/module-info.class]
[loading /modules/jdk.jcmd/module-info.class]
[loading /modules/java.logging/module-info.class]
[loading /modules/jdk.accessibility/module-info.class]
[loading /modules/jdk.javadoc/module-info.class]
[loading /modules/jdk.httpserver/module-info.class]
[loading /modules/jdk.internal.vm.compiler/module-info.class]
[loading /modules/jdk.jstatd/module-info.class]
[loading /modules/java.base/module-info.class]
[loading /modules/jdk.internal.opt/module-info.class]
[loading /modules/jdk.jlink/module-info.class]
[loading /modules/jdk.internal.jvmstat/module-info.class]
[loading /modules/jdk.crypto.ec/module-info.class]
[loading /modules/jdk.net/module-info.class]
[loading /modules/jdk.security.jgss/module-info.class]
[loading /modules/java.scripting/module-info.class]
[loading /modules/java.sql/module-info.class]
[loading /modules/jdk.naming.dns/module-info.class]
[loading /modules/java.datatransfer/module-info.class]
[loading /modules/java.transaction.xa/module-info.class]
[loading /modules/jdk.naming.rmi/module-info.class]
[loading /modules/jdk.security.auth/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.crypto.mscapi/module-info.class]
[loading /modules/jdk.internal.le/module-info.class]
[loading /modules/java.security.jgss/module-info.class]
[loading /modules/java.security.sasl/module-info.class]
[loading /modules/jdk.internal.vm.ci/module-info.class]
[loading /modules/java.instrument/module-info.class]
[loading /modules/java.desktop/module-info.class]
[loading /modules/java.sql.rowset/module-info.class]
[loading /modules/jdk.sctp/module-info.class]
[loading /modules/jdk.jfr/module-info.class]
[loading /modules/jdk.jpackage/module-info.class]
[loading /modules/jdk.jdeps/module-info.class]
[loading /modules/java.net.http/module-info.class]
[loading /modules/jdk.jdwp.agent/module-info.class]
[loading /modules/jdk.attach/module-info.class]
[loading /modules/java.management/module-info.class]
[loading /modules/jdk.internal.vm.compiler.management/module-info.class]
[loading /modules/jdk.incubator.vector/module-info.class]
[loading /modules/java.naming/module-info.class]
```