OOPJ

Assignment-1

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

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

```
D:\Practice\00PJ>java HelloWorld.java Hello World!!
```

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

When we compile a Java file using the "-verbose" option with the javac command, it provides detailed information about the compilation process, including the classes that are being loaded, the files being read, and other internal details.

```
D:\Practice\OOPJ>javac -verbose HelloWorld.java
[parsing started SimpleFileObject[D:\Practice\OOPJ\HelloWorld.java]]
[parsing completed 19ms]
[loading /modules/jdk.jstatd/module-info.class]
[loading /modules/java.instrument/module-info.class]
[loading /modules/jdk.scripting.nashorn.shell/module-info.class]
[loading /modules/jdk.naming.dns/module-info.class]
[loading /modules/jdk.jfr/module-info.class]
[loading /modules/jdk.zipfs/module-info.class]
[loading /modules/jdk.jconsole/module-info.class]
[loading /modules/java.security.jgss/module-info.class]
[loading /modules/java.sql/module-info.class]
[loading /modules/jdk.security.jgss/module-info.class]
[loading /modules/jdk.internal.jvmstat/module-info.class]
[loading /modules/jdk.crypto.ec/module-info.class]
[loading /modules/jdk.compiler/module-info.class]
[loading /modules/jdk.management/module-info.class]
[loading /modules/jdk.charsets/module-info.class]
[loading /modules/jdk.net/module-info.class]
[loading /modules/jdk.jdi/module-info.class]
[loading /modules/java.desktop/module-info.class]
[loading /modules/jdk.scripting.nashorn/module-info.class]
```

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