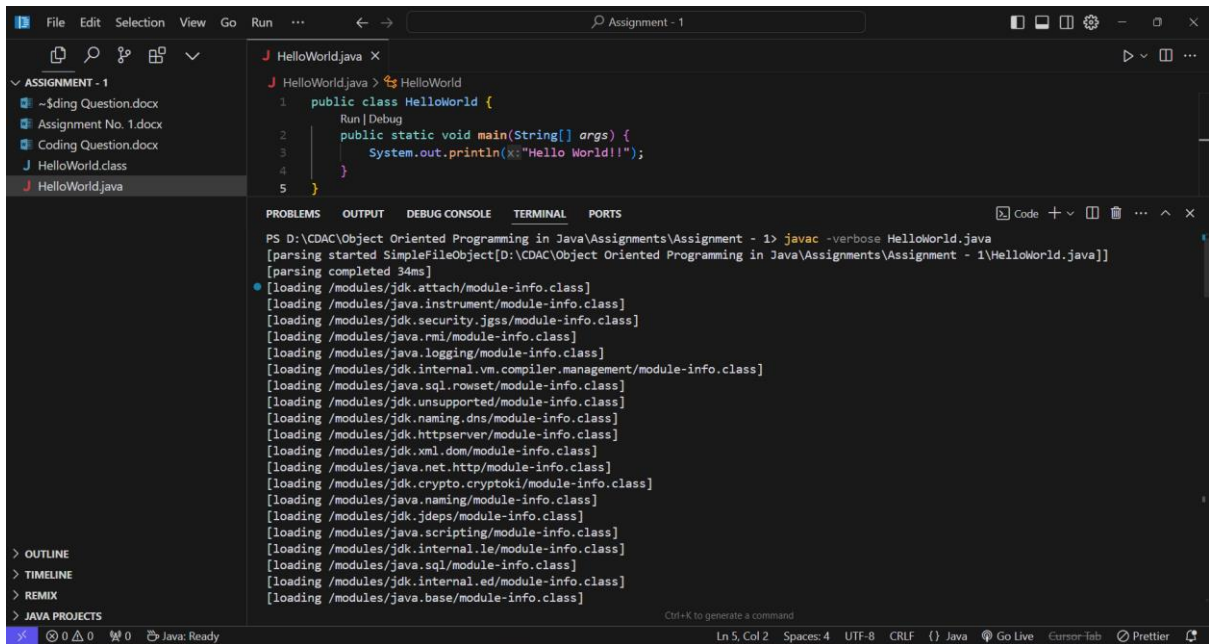


Coding Assignments

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.
4. Observe the output.

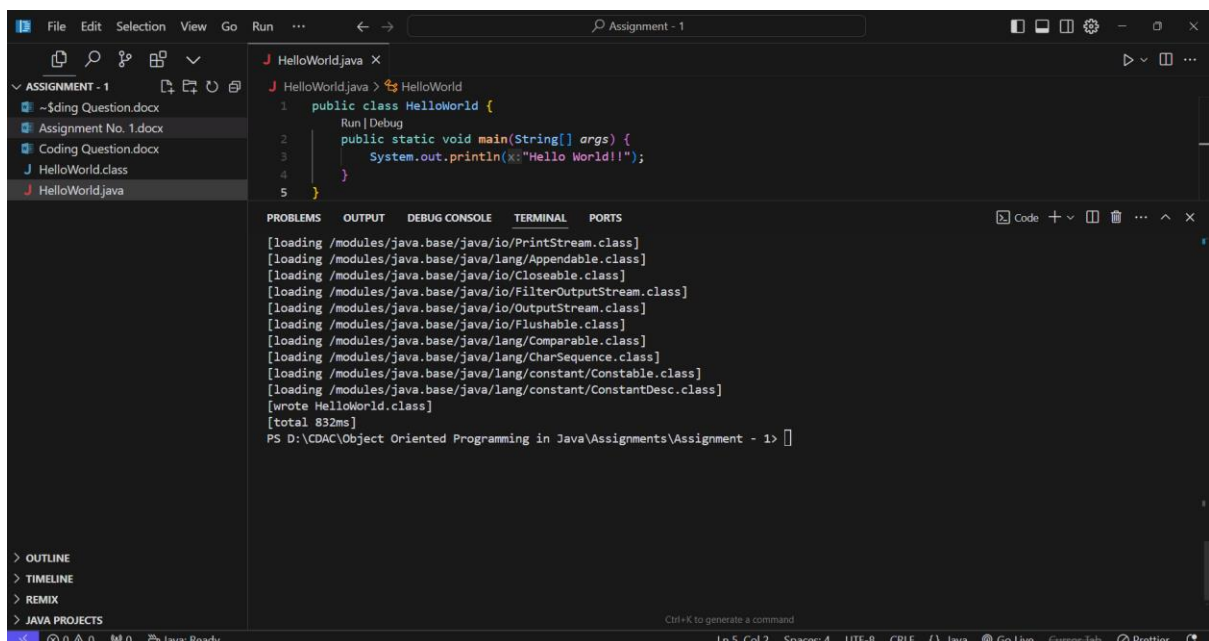


The screenshot shows an IDE window titled "Assignment - 1". The editor displays the following Java code in `HelloWorld.java`:

```
1 public class HelloWorld {  
2     public static void main(String[] args) {  
3         System.out.println("Hello World!!");  
4     }  
5 }
```

The bottom panel shows the output of the command `javac -verbose HelloWorld.java`. The output includes the following information:

```
PS D:\CDAC\Object Oriented Programming in Java\Assignments\Assignment - 1> javac -verbose HelloWorld.java  
[parsing started SimpleFileObject[D:\CDAC\Object Oriented Programming in Java\Assignments\Assignment - 1\HelloWorld.java]]  
[parsing completed 34ms]  
[loading /modules/jdk.attach/module-info.class]  
[loading /modules/java.instrument/module-info.class]  
[loading /modules/jdk.security.jgss/module-info.class]  
[loading /modules/java.rmi/module-info.class]  
[loading /modules/java.logging/module-info.class]  
[loading /modules/jdk.internal.vm.compiler.management/module-info.class]  
[loading /modules/java.sql.rowset/module-info.class]  
[loading /modules/jdk.unsupported/module-info.class]  
[loading /modules/jdk.naming.dns/module-info.class]  
[loading /modules/jdk.httpserver/module-info.class]  
[loading /modules/jdk.xml.dom/module-info.class]  
[loading /modules/java.net.http/module-info.class]  
[loading /modules/jdk.crypto.cryptoki/module-info.class]  
[loading /modules/java.naming/module-info.class]  
[loading /modules/jdk.jdeps/module-info.class]  
[loading /modules/java.scripting/module-info.class]  
[loading /modules/jdk.internal.le/module-info.class]  
[loading /modules/java.sql/module-info.class]  
[loading /modules/jdk.internal.ed/module-info.class]  
[loading /modules/java.base/module-info.class]
```



The screenshot shows the same IDE window as above, but the output of the `javac -verbose` command is scrolled down to show the loading of Java base modules:

```
[loading /modules/java.base/java/io/PrintStream.class]  
[loading /modules/java.base/java/lang/Appendable.class]  
[loading /modules/java.base/java/io/Closeable.class]  
[loading /modules/java.base/java/io/FilterOutputStream.class]  
[loading /modules/java.base/java/io/OutputStream.class]  
[loading /modules/java.base/java/io/Flushable.class]  
[loading /modules/java.base/java/lang/Comparable.class]  
[loading /modules/java.base/java/lang/CharSequence.class]  
[loading /modules/java.base/java/lang/constant/Constable.class]  
[loading /modules/java.base/java/lang/constant/ConstantDesc.class]  
[wrote HelloWorld.class]  
[total 832ms]  
PS D:\CDAC\Object Oriented Programming in Java\Assignments\Assignment - 1>
```

