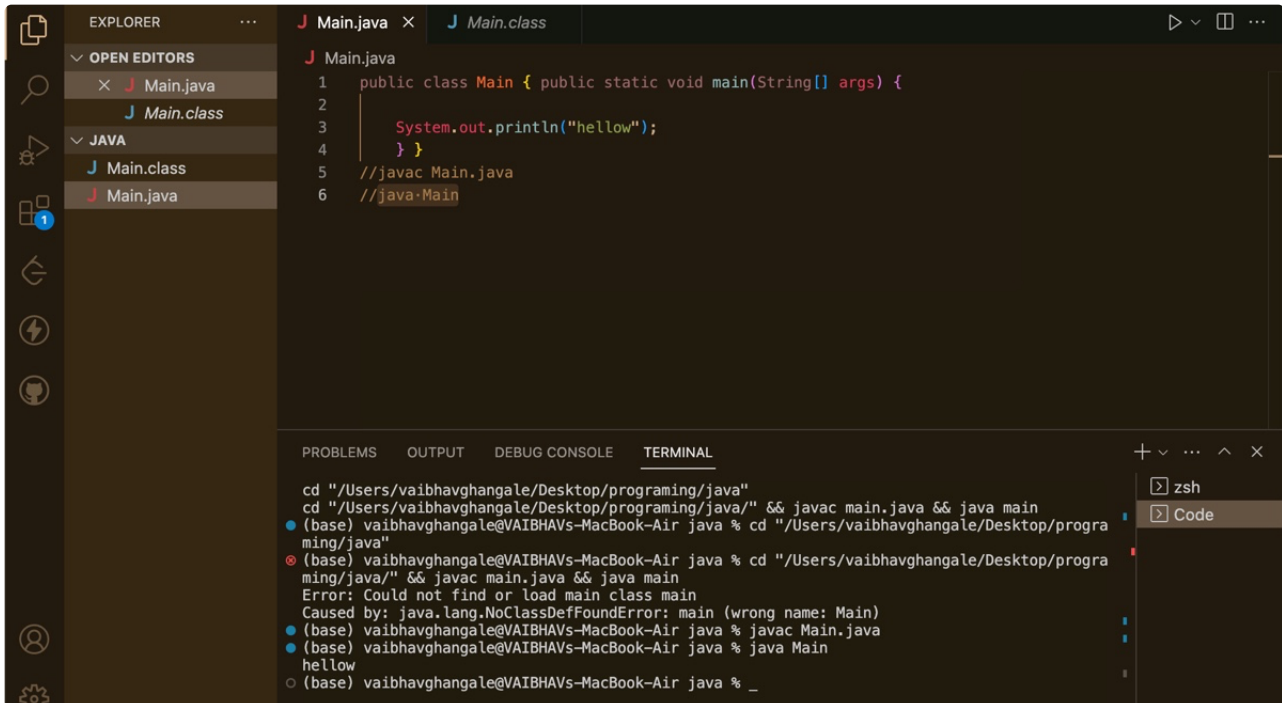


module 2 assignment 1

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



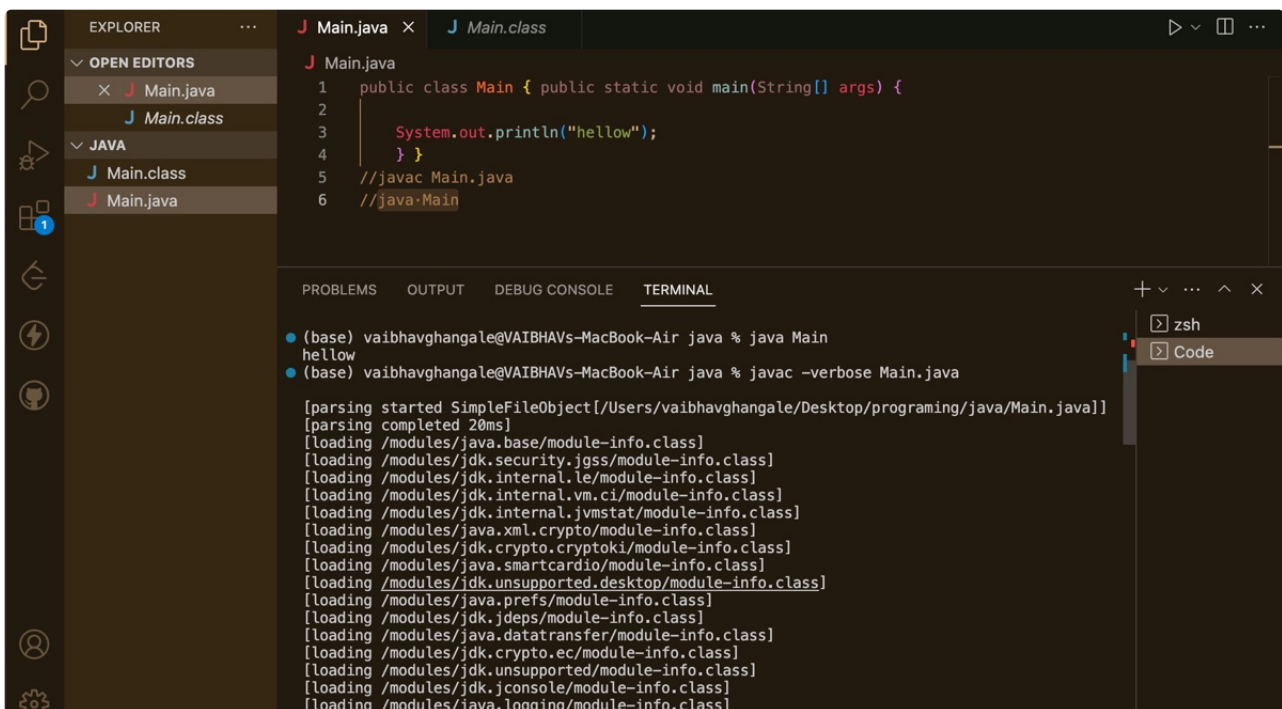
The screenshot shows an IDE with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays a Java file named `Main.java` with the following content:

```
1 public class Main { public static void main(String[] args) {
2
3     System.out.println("hellow");
4 } }
5 //javac Main.java
6 //java Main
```

The terminal shows the execution of the program:

```
cd "/Users/vaibhavghangale/Desktop/programing/java/"
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % cd "/Users/vaibhavghangale/Desktop/programing/java/" && javac main.java && java main
Error: Could not find or load main class main
Caused by: java.lang.NoClassDefFoundError: main (wrong name: Main)
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % javac Main.java
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % java Main
hellow
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % _
```

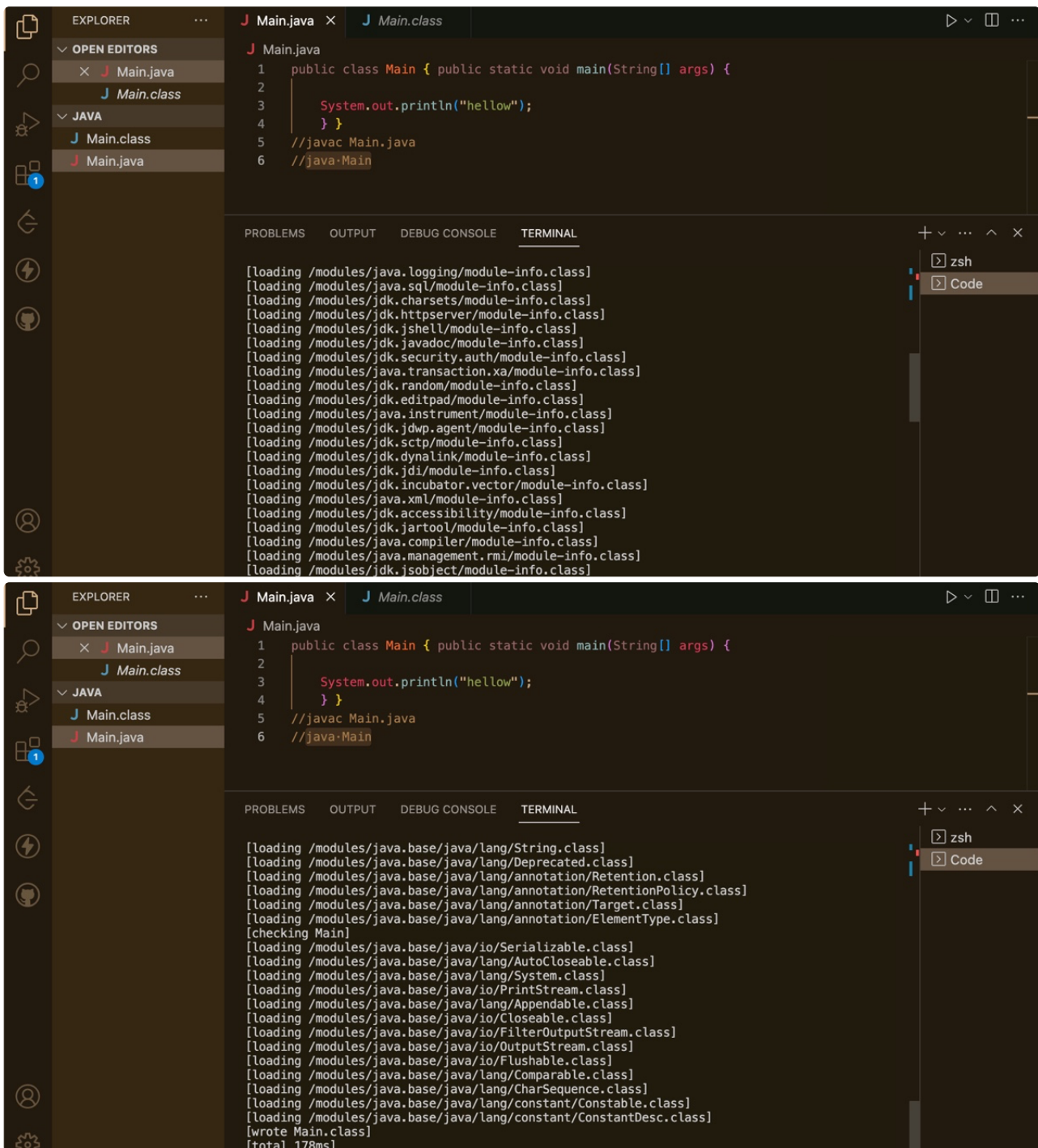
2



The screenshot shows the same IDE as before, but the terminal now displays the output of a verbose compilation:

```
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % java Main
hellow
(base) vaibhavghangale@VAIBHAVs-MacBook-Air java % javac -verbose Main.java

[parsing started SimpleFileObject[/Users/vaibhavghangale/Desktop/programing/java/Main.java]]
[parsing completed 20ms]
[loading /modules/java.base/module-info.class]
[loading /modules/jdk.security.jgss/module-info.class]
[loading /modules/jdk.internal.le/module-info.class]
[loading /modules/jdk.internal.vm.ci/module-info.class]
[loading /modules/jdk.internal.jvmstat/module-info.class]
[loading /modules/java.xml.crypto/module-info.class]
[loading /modules/jdk.crypto.cryptoki/module-info.class]
[loading /modules/java.smartcardio/module-info.class]
[loading /modules/jdk.unsupported.desktop/module-info.class]
[loading /modules/java.prefs/module-info.class]
[loading /modules/jdk.jdeps/module-info.class]
[loading /modules/java.datatransfer/module-info.class]
[loading /modules/jdk.crypto.ec/module-info.class]
[loading /modules/jdk.unsupported/module-info.class]
[loading /modules/jdk.jconsole/module-info.class]
[loading /modules/java.logging/module-info.class]
```



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

