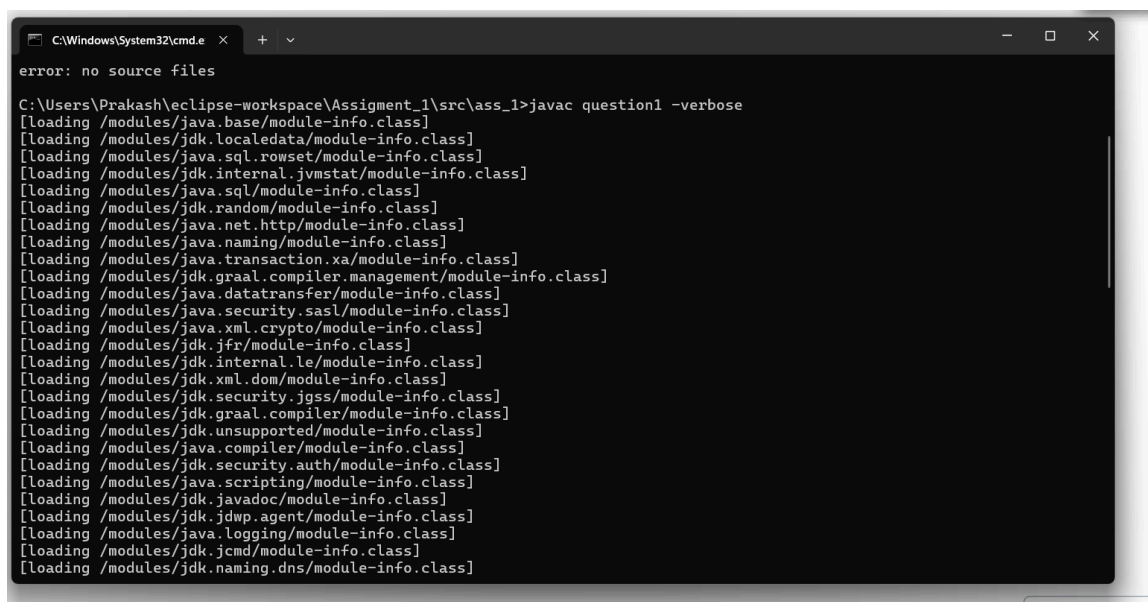**Coding Assignments**

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

Ans:**package** ass_1;
public class question1 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.*out*.println("hello world");

    }
}

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

Ans:


```
error: no source files

C:\Users\Prakash\eclipse-workspace\Assigment_1\src\ass_1>javac question1 -verbose
[loading /modules/java.base/module-info.class]
[loading /modules/jdk.localedata/module-info.class]
[loading /modules/java.sql.rowset/module-info.class]
[loading /modules/jdk.internal.jvmstat/module-info.class]
[loading /modules/java.sql/module-info.class]
[loading /modules/jdk.random/module-info.class]
[loading /modules/java.net.http/module-info.class]
[loading /modules/java.naming/module-info.class]
[loading /modules/java.transaction.xa/module-info.class]
[loading /modules/jdk.graal.compiler.management/module-info.class]
[loading /modules/java.datatransfer/module-info.class]
[loading /modules/java.security.sasl/module-info.class]
[loading /modules/java.xml.crypto/module-info.class]
[loading /modules/jdk.jfr/module-info.class]
[loading /modules/jdk.internal.le/module-info.class]
[loading /modules/jdk.xml.dom/module-info.class]
[loading /modules/jdk.security.jgss/module-info.class]
[loading /modules/jdk.graal.compiler/module-info.class]
[loading /modules/jdk.unsupported/module-info.class]
[loading /modules/java.compiler/module-info.class]
[loading /modules/jdk.security.auth/module-info.class]
[loading /modules/java.scripting/module-info.class]
[loading /modules/jdk.javadoc/module-info.class]
[loading /modules/jdk.jdwp.agent/module-info.class]
[loading /modules/java.logging/module-info.class]
[loading /modules/jdk.jcmd/module-info.class]
[loading /modules/jdk.naming.dns/module-info.class]
```

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

```
Ans:public class ass_1.question1 {
  public ass_1.question1();
  public static void main(java.lang.String[]);
}
```