

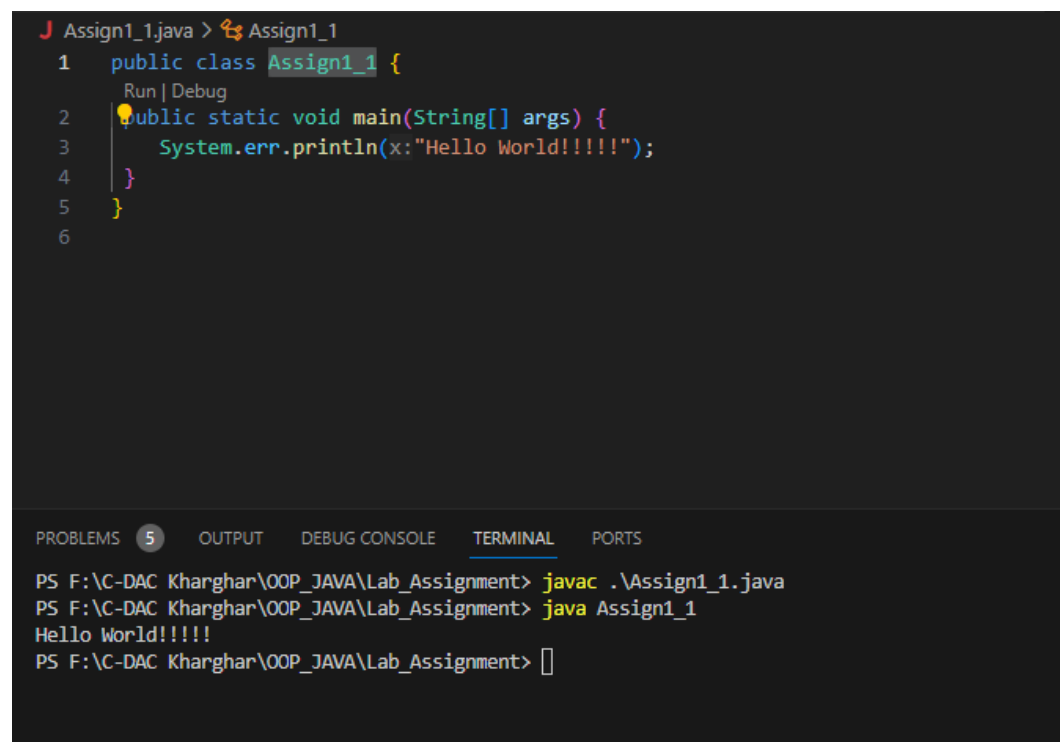
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Center : Kharghar

Assignment No.1

6. Coding Assignments

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

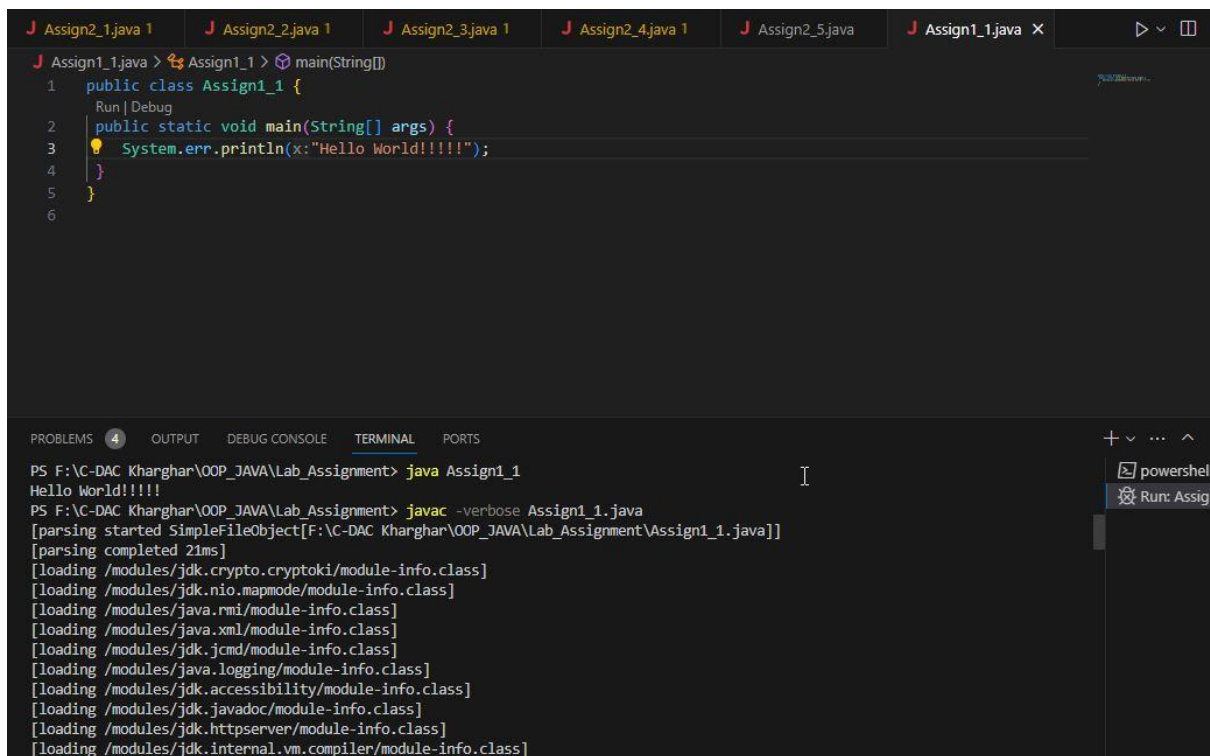


The screenshot shows an IDE with a Java file named `Assign1_1.java`. The code defines a class `Assign1_1` with a `main` method that prints "Hello World!!!!" to the error stream. Below the code editor, the `TERMINAL` tab is active, showing the compilation and execution commands: `javac .\Assign1_1.java` and `java Assign1_1`, followed by the output "Hello World!!!!".

```
J Assign1_1.java > Assign1_1
1 public class Assign1_1 {
  Run | Debug
2   public static void main(String[] args) {
3       System.err.println(x:"Hello World!!!!");
4   }
5 }
6

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> javac .\Assign1_1.java
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> java Assign1_1
Hello World!!!!
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> 
```

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



The screenshot shows an IDE with a Java file named `Assign1_1.java` containing the following code:

```
1 public class Assign1_1 {  
2     Run | Debug  
3     public static void main(String[] args) {  
4         System.err.println(x:"Hello World!!!!");  
5     }  
6 }
```

The terminal output shows the execution of the program and the compilation process:

```
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> java Assign1_1  
Hello World!!!!  
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> javac -verbose Assign1_1.java  
[parsing started SimpleFileObject[F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment\Assign1_1.java]]  
[parsing completed 21ms]  
[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]
```

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

Assign2_1.java 1Assign2_2.java 1Assign2_3.java 1Assign2_4.java 1Assign2_5.javaAssign1_1.java X

Assign1_1.java > Assign1_1 > main(String[])
1 public class Assign1_1 {
2 | Run | Debug
3 | public static void main(String[] args) {
4 | | System.err.println(x:"Hello World!!!!");
5 | }
6 | }

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> javap Assign1_1.class
Compiled from "Assign1_1.java"
public class Assign1_1 {
 public Assign1_1();
 public static void main(java.lang.String[]);
}
PS F:\C-DAC Kharghar\OOP_JAVA\Lab_Assignment> |