

1.

```

J Hello.java 1 X
C: > Users > user > OneDrive > Documents > Desktop > week 1 > J Hello.java > ...
1  public class Hello {
    Run main | Debug main | Run | Debug
2      public static void main(String[] args) {
3          System.out.println(x:"Hello World!");
4      }
5  }
6

```

```

PS C:\Users\user> & 'C:\Program Files\Java\jdk-11.0.2\bin' 'HelloWorld.java'
Hello World!
PS C:\Users\user>

```

2.

```

J Hello.java 1 X
C: > Users > user > OneDrive > Documents > Desktop > week 1 > J Hello.java > ...
1  public class Hello {
    Run main | Debug main | Run | Debug
2      public static void main(String[] args) {
3          System.out.print(s:"Hello World!\n");
4          System.out.print(s:"This is my first program\n");
5          System.out.print(s:"I am on module ST4003CEM\n");
6      }
7  }
8

```

Output:

```

PS C:\Users\user> & 'C:\Program Files\Java\jdk-11.0.2\bin' 'HelloWorld.java'
Hello World!
This is my first program
I am on module ST4003CEM

```

3.

```
C: > Users > user > OneDrive > Documents > Desktop > week 1 > J Main.java > ...  
1  public class Main{  
    Run main | Debug main | Run | Debug  
2      public static void main(String[] args) {  
3          System.out.println(x:"A \"quoted\" String is");  
4          System.out.println(x:"'much' better if you learn");  
5          System.out.println(x:"the rules of \"escape sequences.\"");  
6          System.out.println(x:"Also, \"\" represents an empty");  
7          System.out.println(x:"String. Don't forget: use \\\" \");  
8          System.out.println(x:"instead of \" !");  
9          System.out.println(x:"' ' is not the same as \"");  
10     }  
11 }  
12
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\user> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview  
 \jdt_ws\jdt.ls-java-project\bin' 'Main'  
A "quoted" String is  
'much' better if you learn  
the rules of "escape sequences."  
Also, "" represents an empty  
String. Don't forget: use \  
instead of " !  
' ' is not the same as "
```

4.



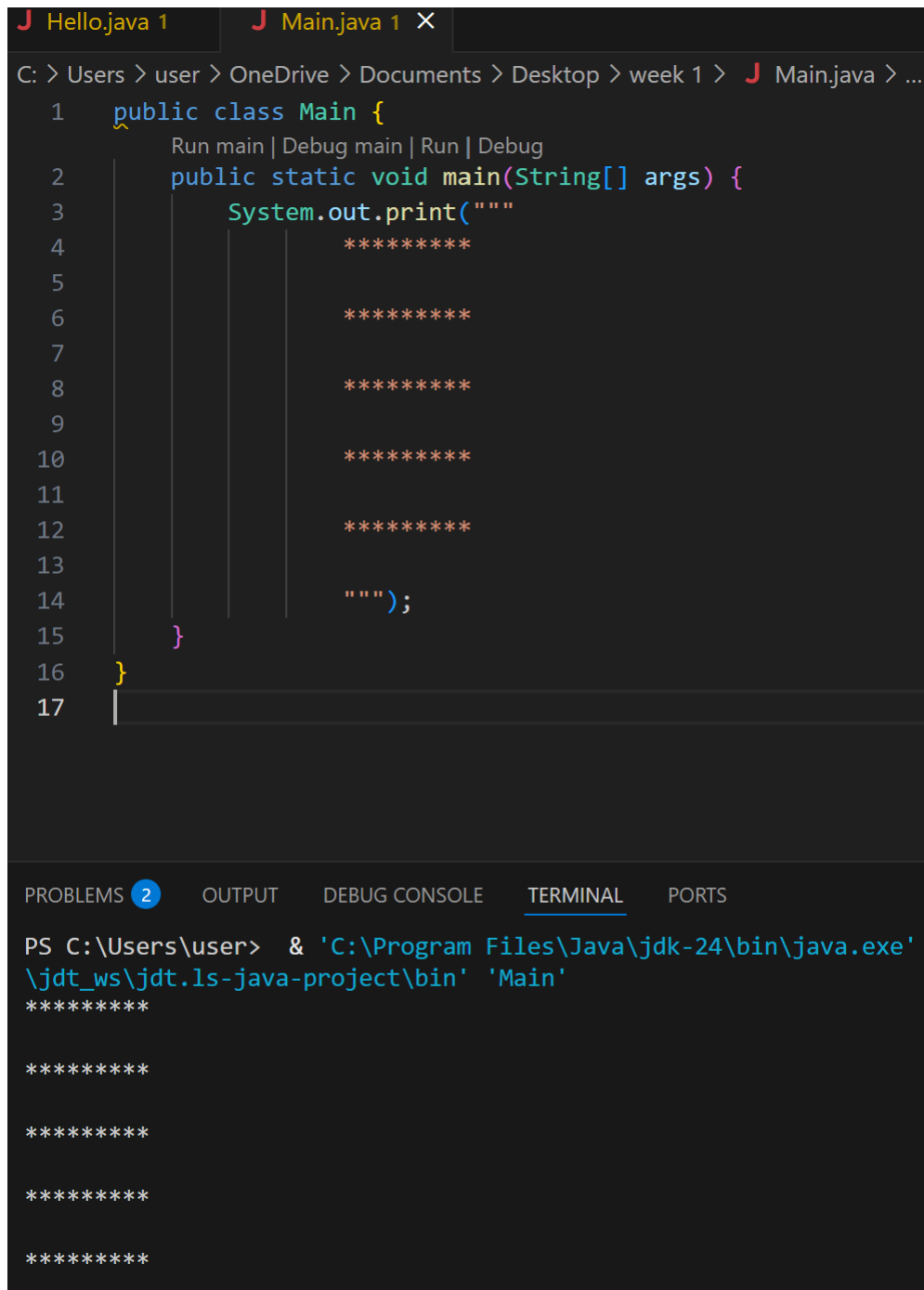
The screenshot shows an IDE with two tabs: 'Hello.java 1' and 'Main.java 1 X'. The 'Main.java' tab is active, displaying the following code:

```
1 public class Main {  
    Run main | Debug main | Run | Debug  
2     public static void main(String[] args) {  
3         System.out.print("  
4             *  
5             **  
6             ***  
7             ****  
8             *****  
9             """);  
10    }  
11 }  
12
```

The IDE interface includes a 'PROBLEMS' tab with a count of 2, and tabs for 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing the command prompt output:

```
PS C:\Users\user> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-p  
\jdt_ws\jdt.ls-java-project\bin' 'Main'  
*  
**  
***  
****  
*****  
PS C:\Users\user>
```

5.



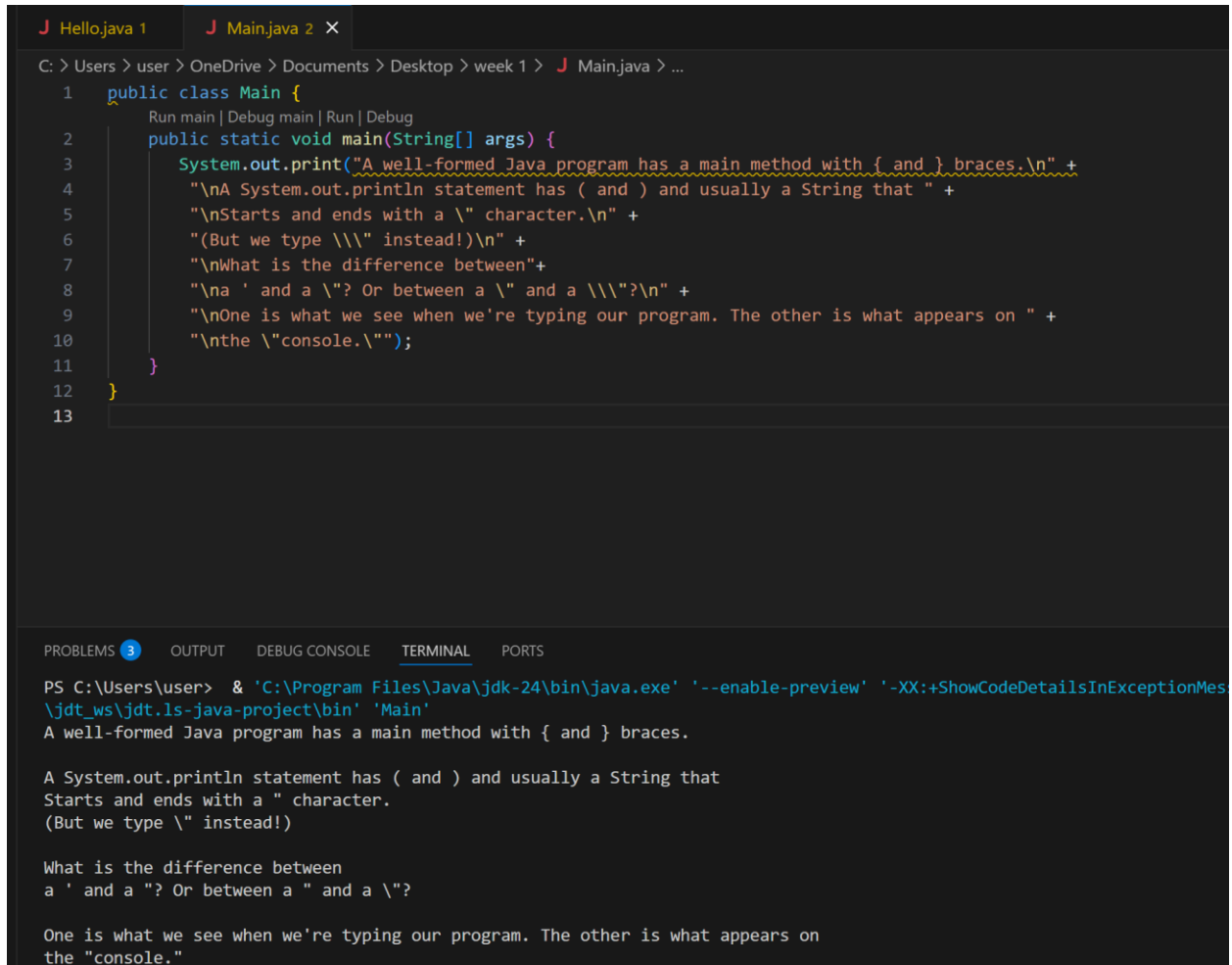
The image shows an IDE window with two tabs: 'Hello.java 1' and 'Main.java 1 X'. The active tab is 'Main.java 1 X', showing the following code:

```
1 public class Main {  
    Run main | Debug main | Run | Debug  
2     public static void main(String[] args) {  
3         System.out.print("""  
4             *****  
5  
6             *****  
7  
8             *****  
9  
10            *****  
11  
12            *****  
13  
14            """);  
15     }  
16 }  
17
```

Below the code editor is a panel with tabs: 'PROBLEMS 2', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing the command prompt output:

```
PS C:\Users\user> & 'C:\Program Files\Java\jdk-24\bin\java.exe'  
& 'C:\Program Files\Java\jdk-24\bin\java.exe' -cp 'C:\Program Files\Java\jdk-24\bin\jdt_ws\jdt.ls-java-project\bin' 'Main'  
*****  
  
*****  
  
*****  
  
*****  
  
*****
```

6.



The screenshot shows an IDE with two tabs: 'Hello.java 1' and 'Main.java 2'. The 'Main.java 2' tab is active, displaying a Java program. The code defines a public class 'Main' with a main method that prints several lines of text. The text explains the syntax of a main method, the use of 'System.out.println', and the difference between single and double quotes. The IDE's interface includes a toolbar with 'Run main', 'Debug main', 'Run', and 'Debug' buttons. Below the code editor, there is a 'TERMINAL' tab showing the command used to run the program and its output.

```
1 public class Main {
2     public static void main(String[] args) {
3         System.out.print("A well-formed Java program has a main method with { and } braces.\n" +
4             "\nA System.out.println statement has ( and ) and usually a String that " +
5             "\nStarts and ends with a \" character.\n" +
6             "\n(But we type \" instead!)\n" +
7             "\nWhat is the difference between"+
8             "\na ' and a \"? Or between a \" and a \"\"?\n" +
9             "\nOne is what we see when we're typing our program. The other is what appears on " +
10            "\nthe \"console.\"");
11    }
12 }
13
```

PS C:\Users\user> & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-jar' 'C:\Users\user\OneDrive\Documents\Desktop\week 1\Main.java' 'Main'

A well-formed Java program has a main method with { and } braces.

A System.out.println statement has (and) and usually a String that Starts and ends with a " character. (But we type \" instead!)

What is the difference between a ' and a "? Or between a " and a \"?

One is what we see when we're typing our program. The other is what appears on the "console."