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ST4003CEM Object Oriented Programming

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Q.no.1.



The screenshot shows an IDE window titled "Hello.java 1". The file path is "C: > Users > Hp > OneDrive > Desktop > week 1 > Hello.java > Hello > main(String[])". The code is as follows:

```
43  
44 public class Hello {  
    Run | Debug  
45     public static void main(String[] args) {  
46         System.out.println(x:"Hello World!");  
47     }  
48 }  
49
```

Below the code editor, the "TERMINAL" tab is active, showing the following commands and output:

```
PS C:\Users\Hp> ^C  
PS C:\Users\Hp>  
PS C:\Users\Hp> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsIn  
ws\jdt.ls-java-project\bin' 'Hello'  
Hello World!  
PS C:\Users\Hp>
```

Q.NO.2.

```
45 public class Hello {  
    Run | Debug  
46     public static void main(String[] args) {  
47         //Displaya gretting in the console window  
48         System.out.println(x:"Hello, World!\n");  
49         System.out.println(x:"This is my first program\n");  
50         System.out.println(x:"I am on module ST4003CEM\n");  
51     }  
52 }  
53  
54
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

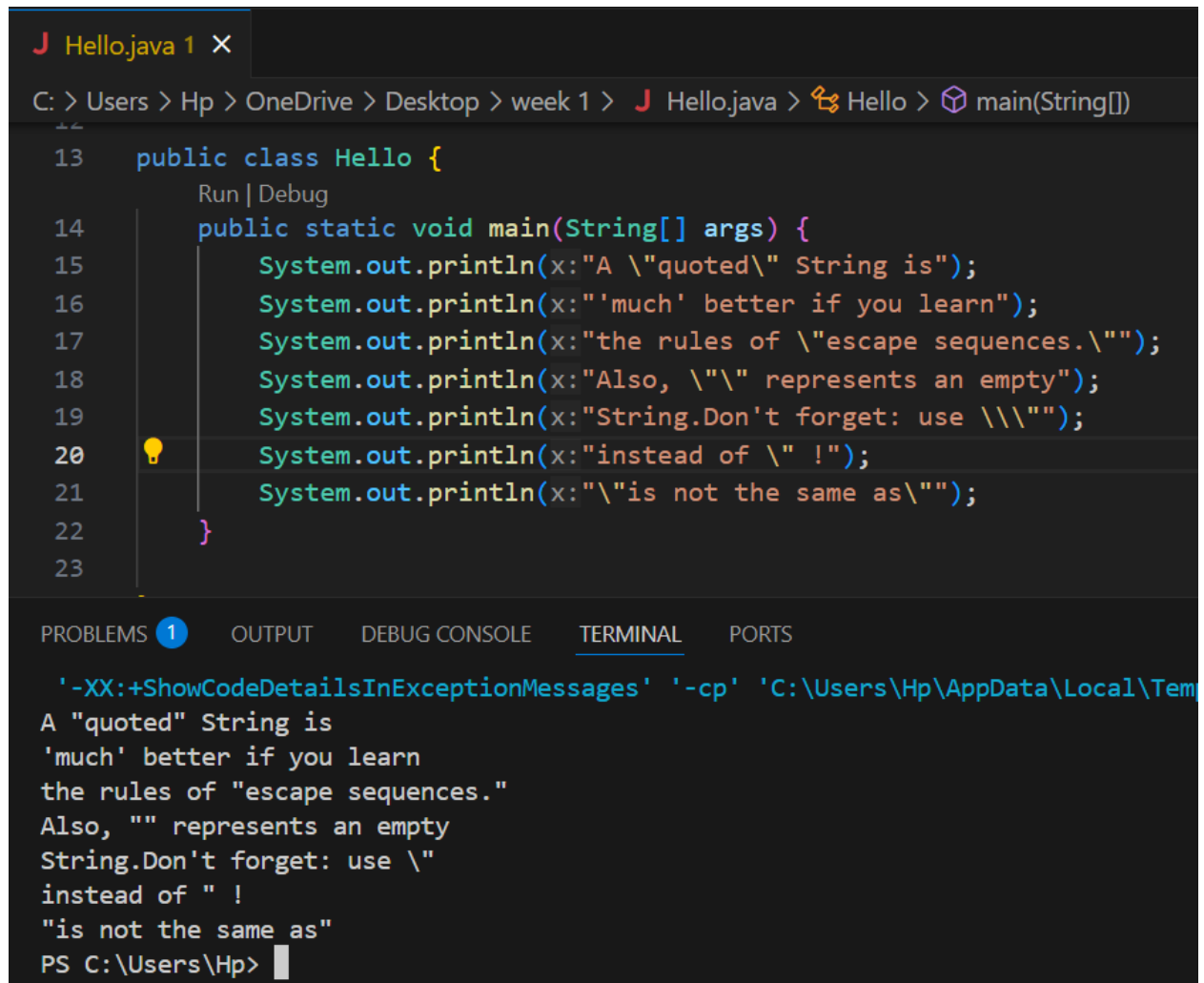
```
PS C:\Users\Hp> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:  
desws_827b9\jdt_ws\jdt.ls-java-project\bin' 'Hello'
```

```
Hello, World!
```

```
This is my first program
```

```
I am on module ST4003CEM
```

Q.NO.3.



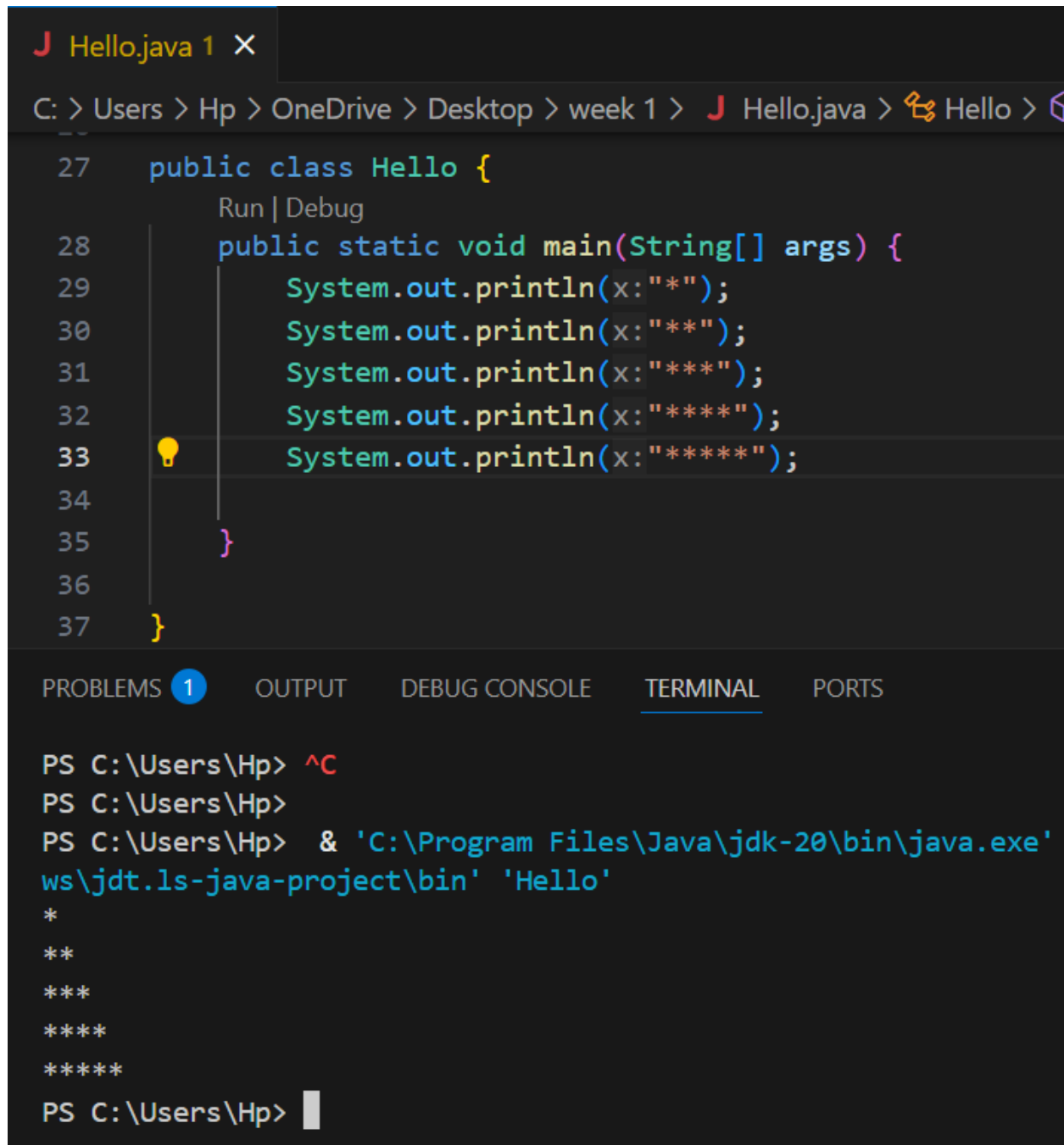
The screenshot shows an IDE window titled 'Hello.java 1'. The code is as follows:

```
13 public class Hello {  
    Run | Debug  
14     public static void main(String[] args) {  
15         System.out.println(x:"A \"quoted\" String is");  
16         System.out.println(x: "'much' better if you learn");  
17         System.out.println(x: "the rules of \"escape sequences.\"");  
18         System.out.println(x: "Also, \"\" represents an empty");  
19         System.out.println(x: "String.Don't forget: use \\\"");  
20         System.out.println(x: "instead of \" !");  
21         System.out.println(x: "\"is not the same as\"");  
22     }  
23 }
```

The bottom panel shows the 'TERMINAL' tab with the following output:

```
'-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Hp\AppData\Local\Temp'  
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"  
PS C:\Users\Hp>
```

Q.NO.4.



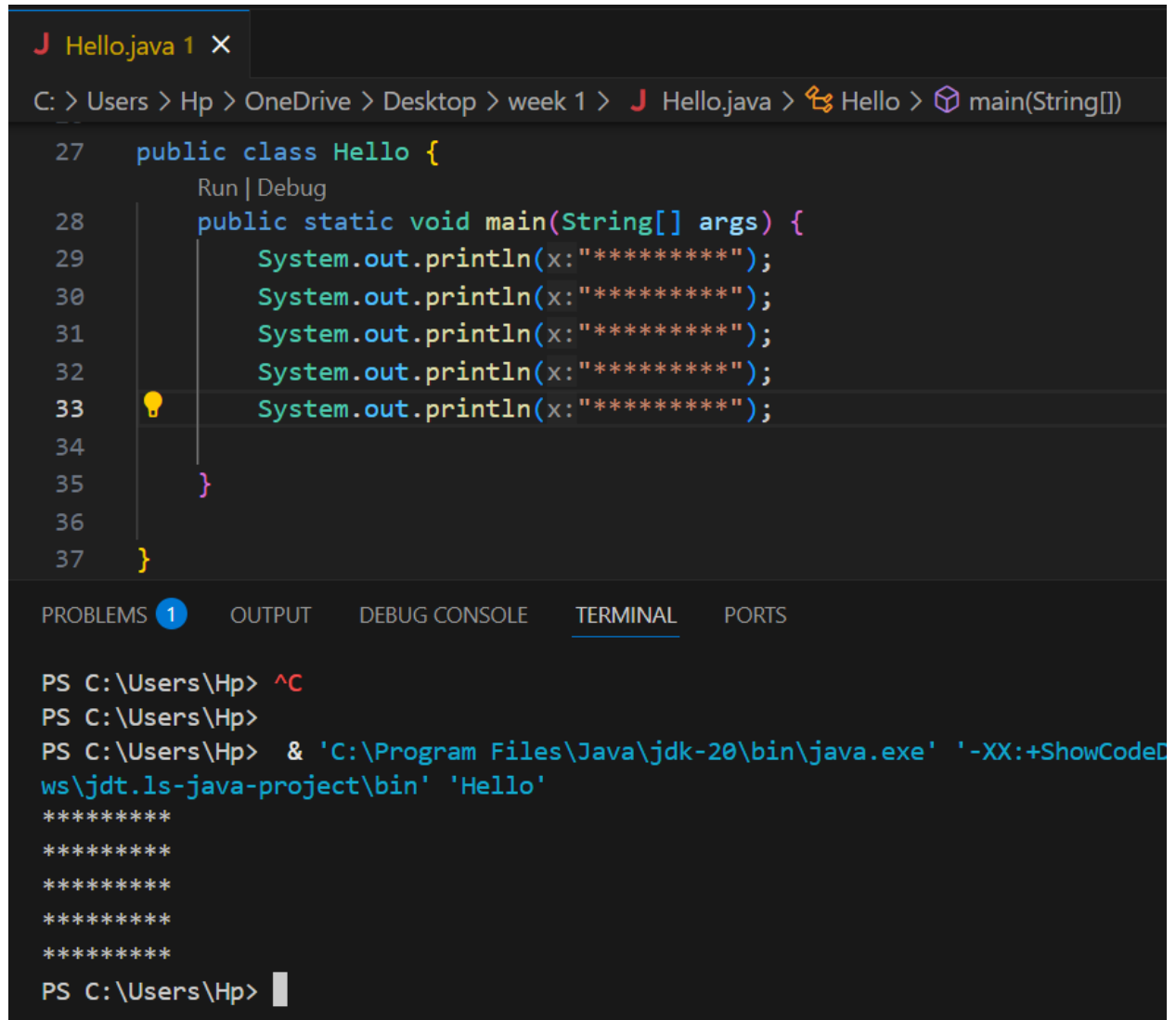
The image shows a screenshot of an IDE with a dark theme. The top part displays a Java file named 'Hello.java' with the following code:

```
27 public class Hello {  
    Run | Debug  
28     public static void main(String[] args) {  
29         System.out.println(x: "*");  
30         System.out.println(x: "**");  
31         System.out.println(x: "***");  
32         System.out.println(x: "****");  
33         System.out.println(x: "*****");  
34     }  
35 }  
36  
37 }
```

Below the code editor, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing the command prompt output:

```
PS C:\Users\Hp> ^C  
PS C:\Users\Hp>  
PS C:\Users\Hp> & 'C:\Program Files\Java\jdk-20\bin\java.exe'  
ws\jdt.ls-java-project\bin' 'Hello'  
*  
**  
***  
****  
*****  
PS C:\Users\Hp> 
```

Q.NO.5.



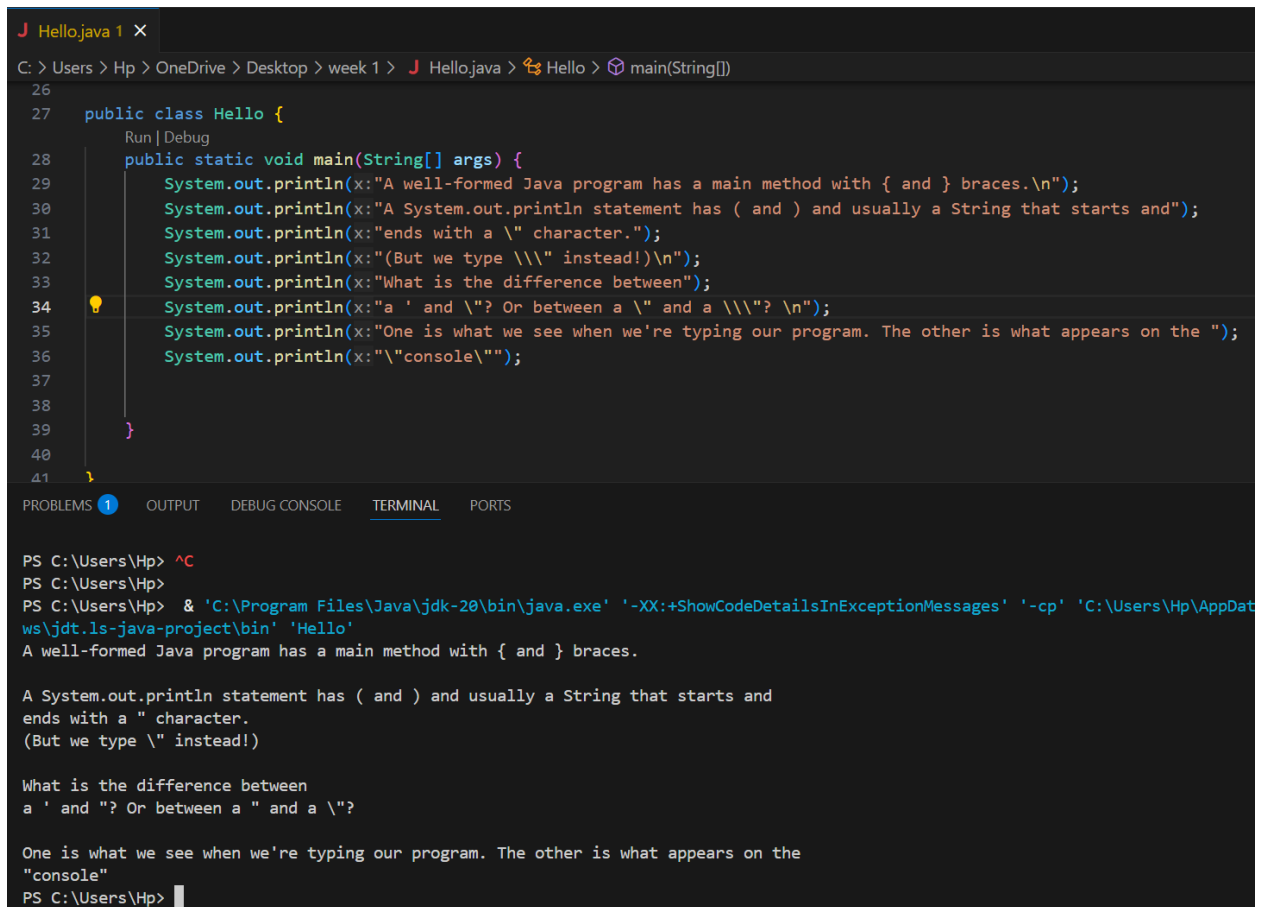
The image shows a screenshot of an IDE with a dark theme. At the top, a tab is labeled 'Hello.java 1'. Below the tab, the file path is displayed: 'C: > Users > Hp > OneDrive > Desktop > week 1 > Hello.java > Hello > main(String[])'. The main editor area contains the following Java code:

```
27 public class Hello {  
    Run | Debug  
28     public static void main(String[] args) {  
29         System.out.println(x: "*****");  
30         System.out.println(x: "*****");  
31         System.out.println(x: "*****");  
32         System.out.println(x: "*****");  
33         System.out.println(x: "*****");  
34     }  
35 }  
36  
37 }
```

Below the code editor, there is a panel with tabs: 'PROBLEMS 1', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is selected, showing the following command prompt session:

```
PS C:\Users\Hp> ^C  
PS C:\Users\Hp>  
PS C:\Users\Hp> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeD  
ws\jdt.ls-java-project\bin' 'Hello'  
*****  
*****  
*****  
*****  
*****  
PS C:\Users\Hp> 
```

Q.NO.6.



The screenshot shows an IDE with a Java file named 'Hello.java'. The code defines a 'Hello' class with a 'main' method that prints several lines of text. The IDE's interface includes a 'Run | Debug' button, a 'TERMINAL' tab, and a 'PROBLEMS' tab. The terminal output shows the command used to run the program and the resulting printed text.

```
J Hello.java 1 X
C: > Users > Hp > OneDrive > Desktop > week 1 > J Hello.java > Hello > main(String[])
26
27 public class Hello {
28     Run | Debug
29     public static void main(String[] args) {
30         System.out.println(x:"A well-formed Java program has a main method with { and } braces.\n");
31         System.out.println(x:"A System.out.println statement has ( and ) and usually a String that starts and");
32         System.out.println(x:"ends with a \" character.");
33         System.out.println(x:"(But we type \" instead!)\n");
34         System.out.println(x:"What is the difference between");
35         System.out.println(x:"a ' and \"? Or between a \" and a \"\"? \n");
36         System.out.println(x:"One is what we see when we're typing our program. The other is what appears on the ");
37         System.out.println(x:"console\"");
38     }
39 }
40
41
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Hp> ^C
PS C:\Users\Hp>
PS C:\Users\Hp> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Hp\AppData\Local\Microsoft\Windows\apps\jdt.ls-java-project\bin' 'Hello'
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 "? Or between a " and a \"?

One is what we see when we're typing our program. The other is what appears on the
"console"
PS C:\Users\Hp>
```