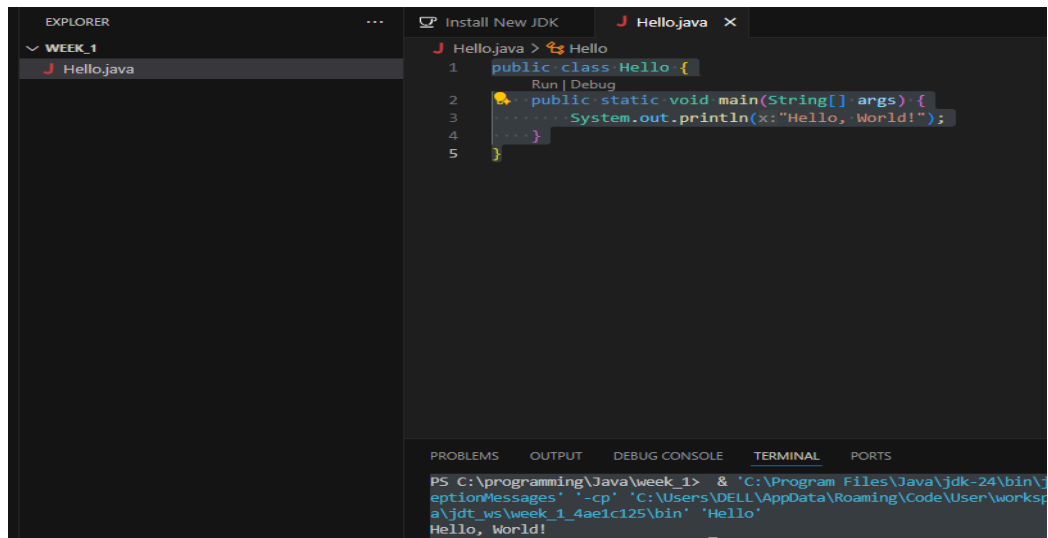


1. Write a program that prints Hello World! to the console. Save the program as Hello.java.



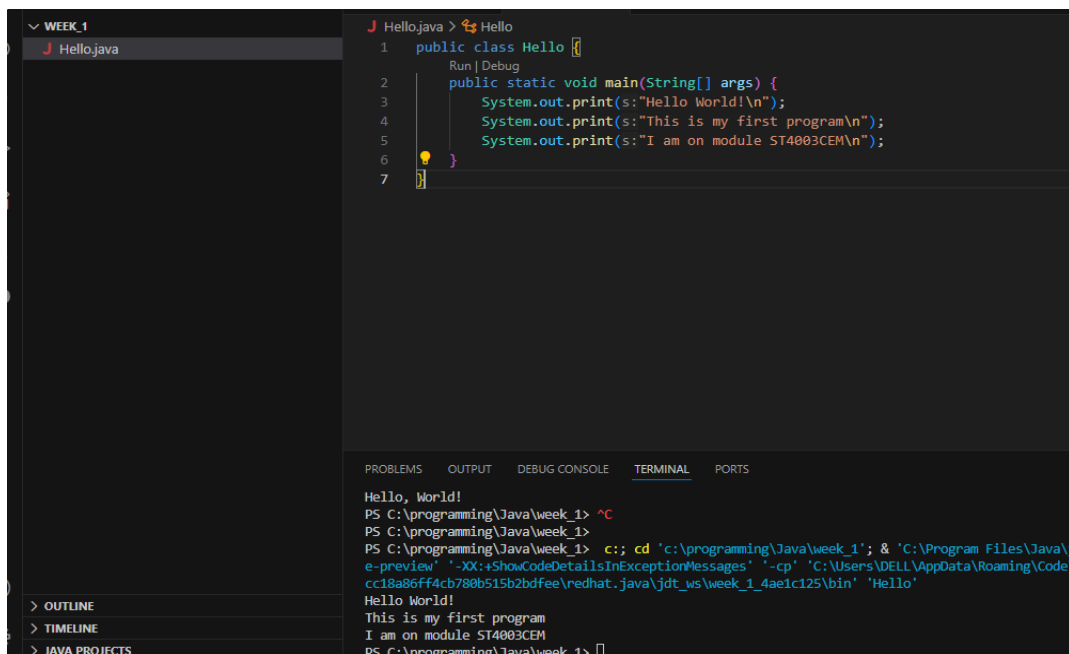
*Figure 1: printing Hello World*

2. Extend/Modify the above program to print two additional lines:

This is my first program

I am on module ST4003CEM

System.out.print (not println) and produces the same output.



*Figure 2: Two additional lines*

3. Write a program that prints the following output:

A "quoted" String is

'much' better if you learn

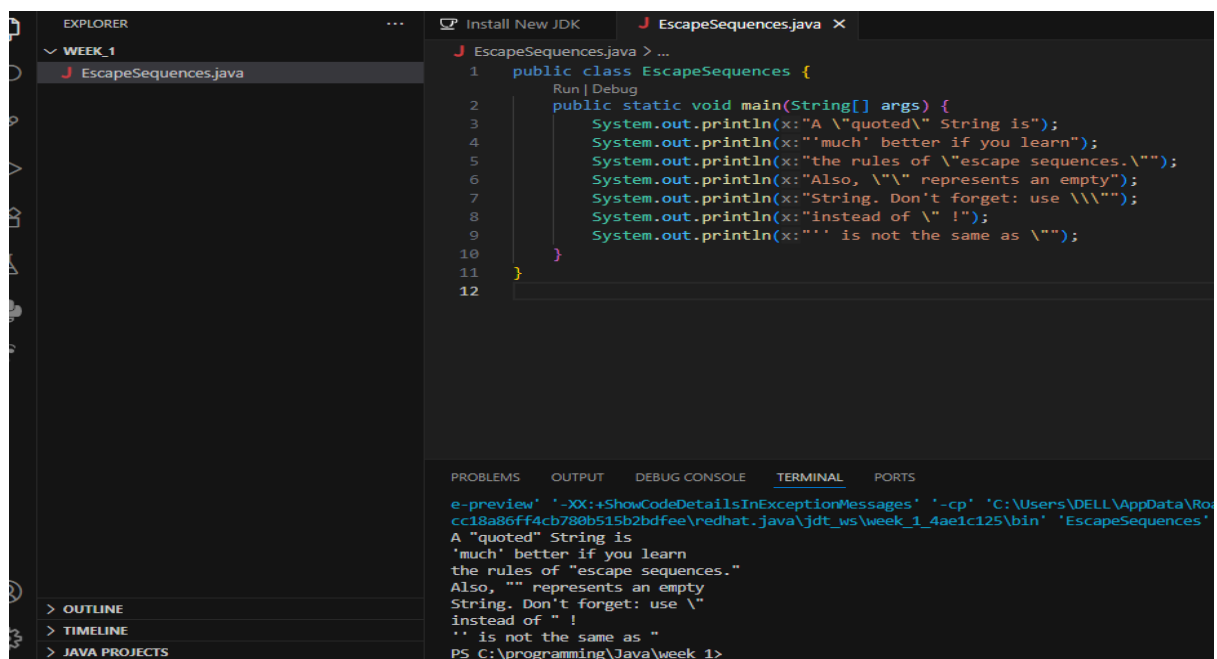
the rules of "escape sequences."

Also, "" represents an empty

String. Don't forget: use \"

instead of " !

" is not the same as "



```
1 public class EscapeSequences {
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 OUTPUT DEBUG CONSOLE TERMINAL PORTS

e-preview' ->XX:++ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\cc18a86ff4cb780b515b2bdfef\redhat.java\jdt\_ws\week\_1\_4ae1c125\bin' 'EscapeSequences'

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:\programming\Java\week\_1>

*Figure 3: Quoted string*

4. WAP that prints the following pattern:

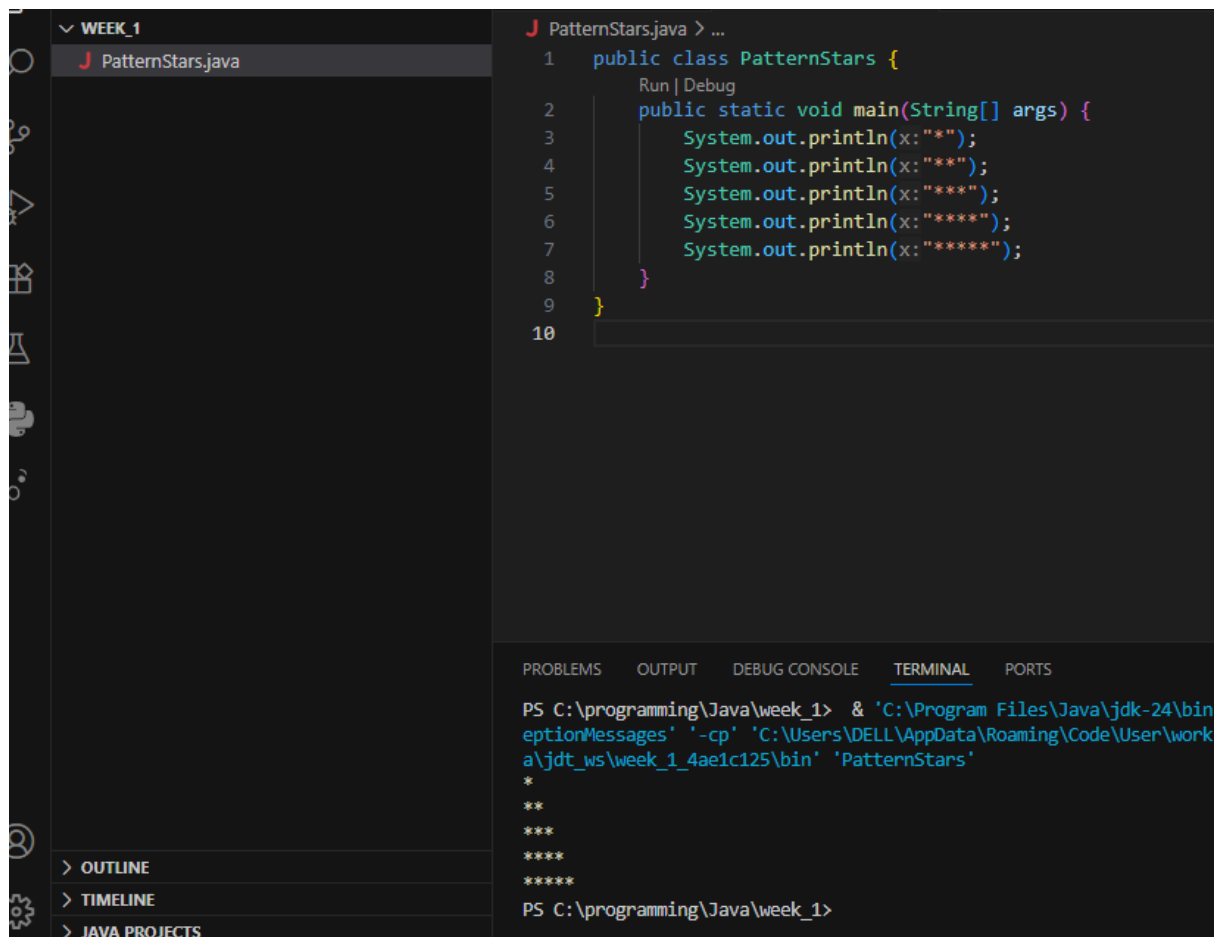
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The screenshot shows an IDE with a project named 'WEEK\_1'. The file 'PatternStars.java' is open in the editor. The code is as follows:

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

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

```
PS C:\programming\Java\week_1> & 'C:\Program Files\Java\jdk-24\bin  
optionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\work  
a\jdt_ws\week_1_4ae1c125\bin' 'PatternStars'  
*  
**  
***  
****  
*****  
PS C:\programming\Java\week_1>
```

*Figure 4: Pattern*

5. WAP prints the following pattern:

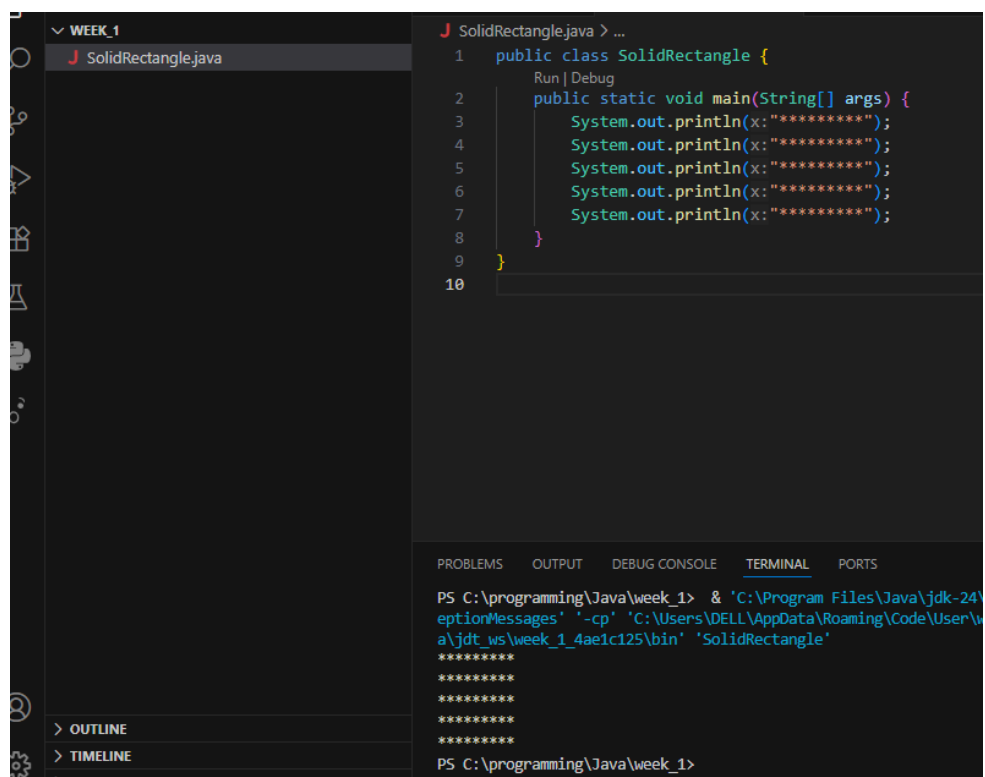
\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

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\*\*\*\*\*



The screenshot shows an IDE with a file named `SolidRectangle.java` open. The code in the editor is as follows:

```
1 public class SolidRectangle {  
2     public static void main(String[] args) {  
3         System.out.println(x: "*****");  
4         System.out.println(x: "*****");  
5         System.out.println(x: "*****");  
6         System.out.println(x: "*****");  
7         System.out.println(x: "*****");  
8     }  
9 }  
10
```

The terminal at the bottom shows the command to run the program and its output:

```
PS C:\programming\Java\week_1> & 'C:\Program Files\Java\jdk-24\bin\java.exe' -cp 'C:\Users\DELL\AppData\Roaming\Code\User\workspace\week_1_4ae1c125\bin' 'SolidRectangle'  
*****  
*****  
*****  
*****  
*****  
PS C:\programming\Java\week_1>
```

*Figure 5 : Solid Rectangle*

6. WAP that prints the following output:

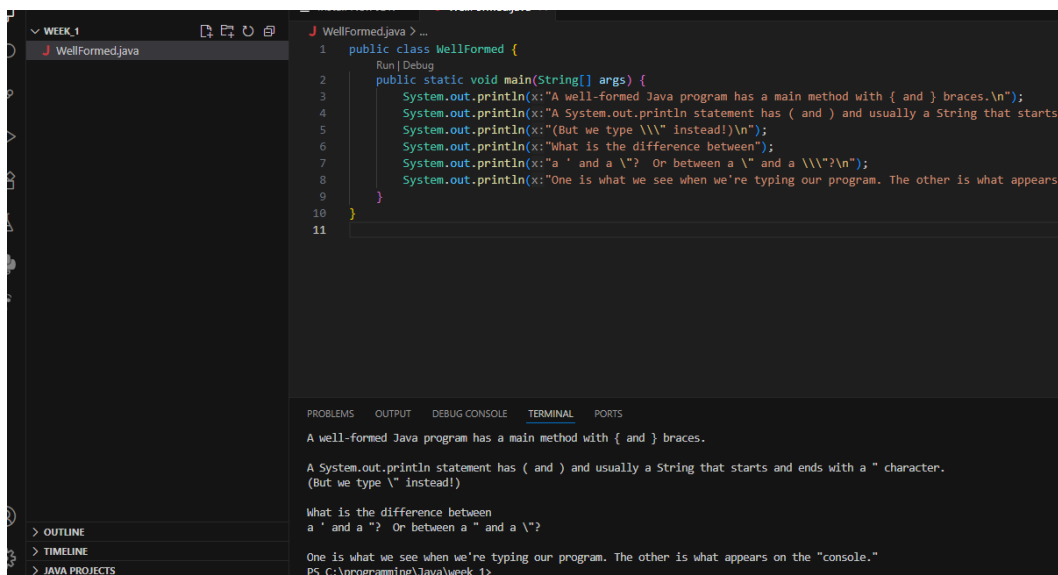
A well-formed Java  
program has a main method  
with { and } braces.

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."



```
1 public class WellFormed {
2     public static void main(String[] args) {
3         System.out.println("A well-formed Java program has a main method with { and } braces.\n");
4         System.out.println("A System.out.println statement has ( and ) and usually a String that starts
5         System.out.println("What is the difference between");
6         System.out.println("But we type \" instead!");
7         System.out.println("a ' and a "? Or between a \" and a \"?");
8         System.out.println("One is what we see when we're typing our program. The other is what appears
9     }
10 }
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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."  
PS C:\programming\Java\week\_1>

*Figure 6: WellFormed*

