Assignment Title:

Coursework

Coursework type:

Individual

Module Name:

ST4003CMD-Programming: Professional Practice

Intake:March

Submitted By: **Submitted To:**

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1. **Write a program that prints Hello World! to the console. Save the program as Hello.java.**
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.
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 "
4. **WAP that prints the following pattern:**
*
**
***
****
*****

5. **WAP prints the following pattern:**
****
****
****
****
****

6**. WAP that prints the following output:**
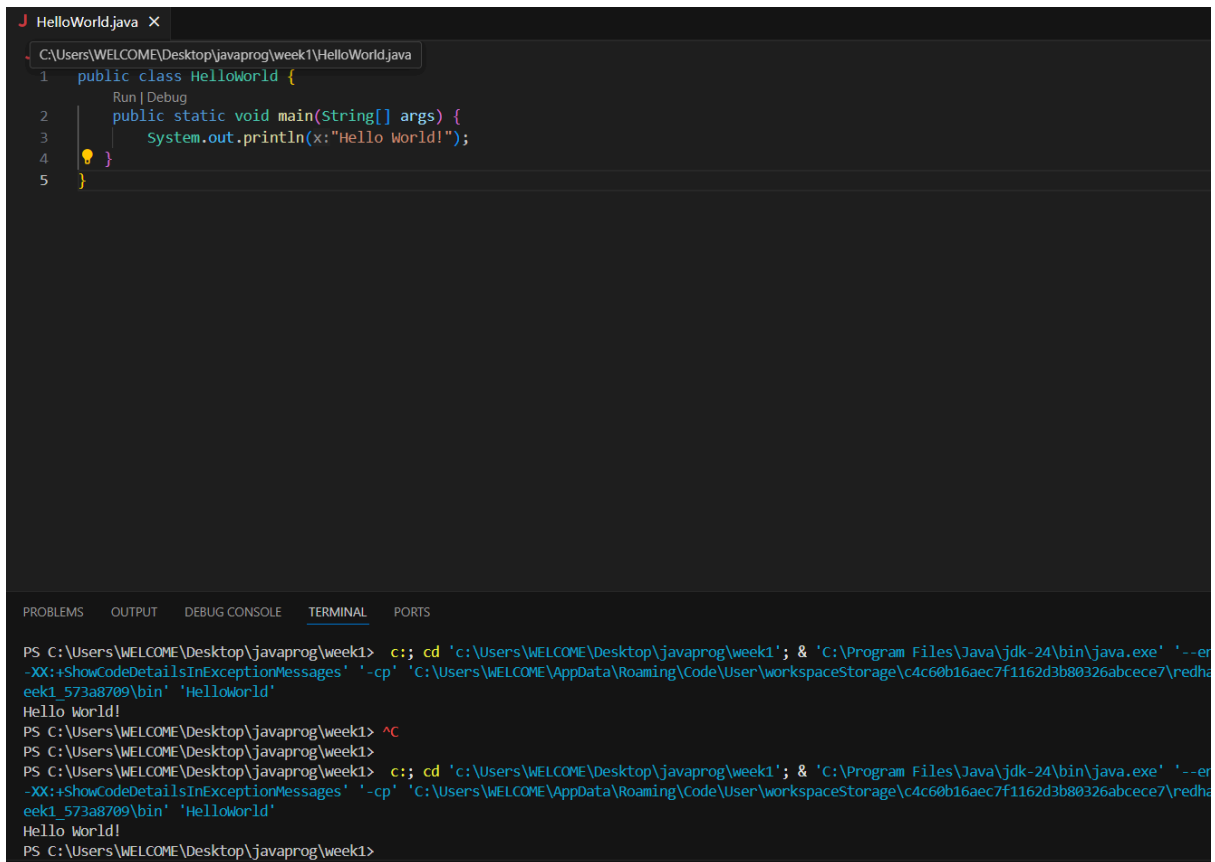   A well-formed Java
        program has a main
        method with { and } braces.
        A System.out.println
        statement has (and) and
        usually a String that starts
        and ends with a " character.
        (But we type \" instead!)
        What is the difference between
        a ' and a "? Or between a " and a \"?
        One is what we see when we're typing our
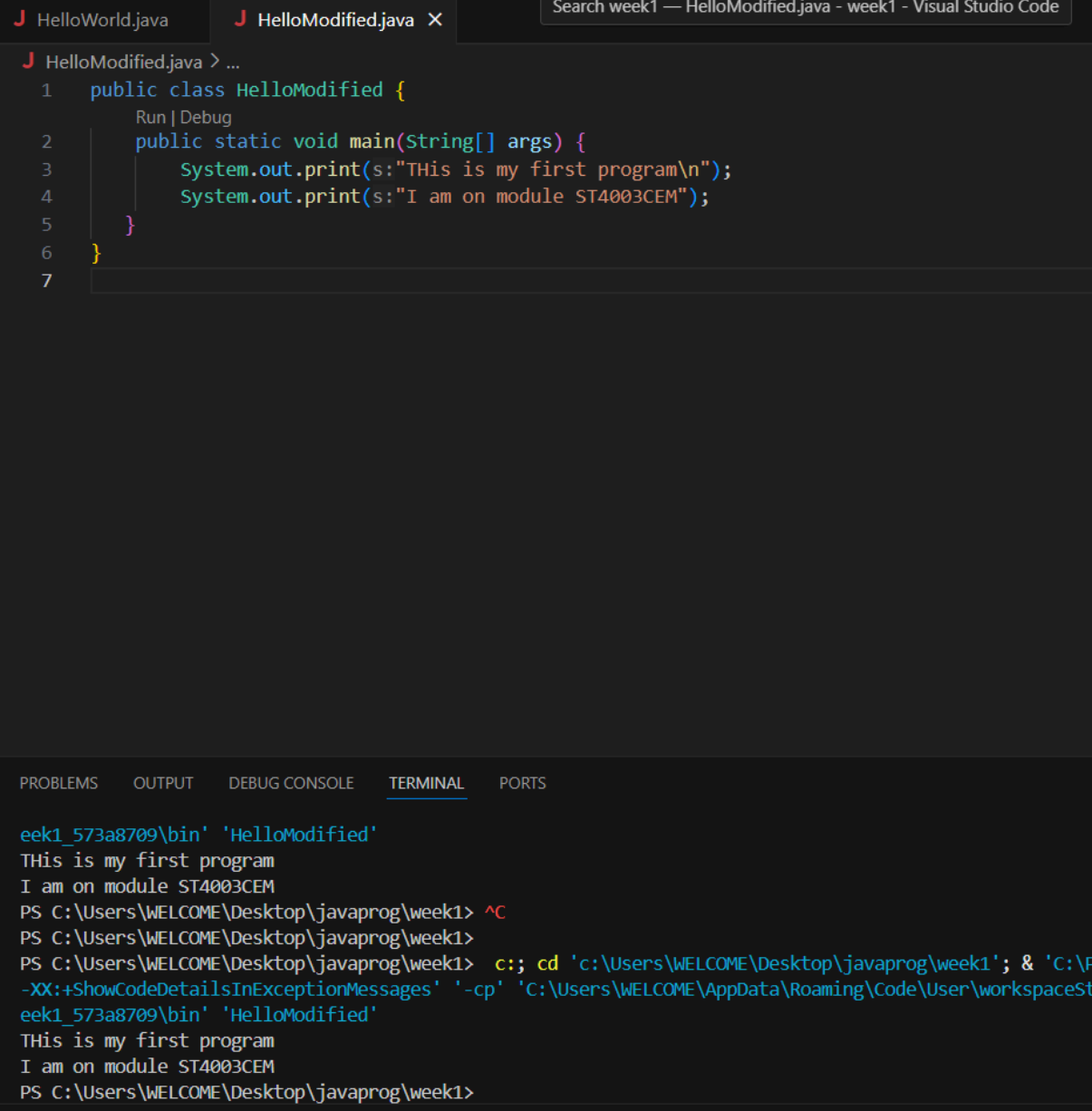   program. The other is what appears on the
        "console."

Qn 1.


```
J HelloWorld.java ×

  C:\Users\WELCOME\Desktop\javaprog\week1\HelloWorld.java
1    public class HelloWorld {
        Run | Debug
2        public static void main(String[] args) {
3            System.out.println(x:"Hello World!");
4    💡 }
5    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\WELCOME\Desktop\javaprog\week1>  c:; cd 'c:\Users\WELCOME\Desktop\javaprog\week1'; & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--er
-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WELCOME\AppData\Roaming\Code\User\workspaceStorage\c4c60b16aec7f1162d3b80326abcece7\redha
eek1_573a8709\bin' 'HelloWorld'
Hello World!
PS C:\Users\WELCOME\Desktop\javaprog\week1> ^C
PS C:\Users\WELCOME\Desktop\javaprog\week1>
PS C:\Users\WELCOME\Desktop\javaprog\week1>  c:; cd 'c:\Users\WELCOME\Desktop\javaprog\week1'; & 'C:\Program Files\Java\jdk-24\bin\java.exe' '--er
-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WELCOME\AppData\Roaming\Code\User\workspaceStorage\c4c60b16aec7f1162d3b80326abcece7\redha
eek1_573a8709\bin' 'HelloWorld'
Hello World!
PS C:\Users\WELCOME\Desktop\javaprog\week1>
```
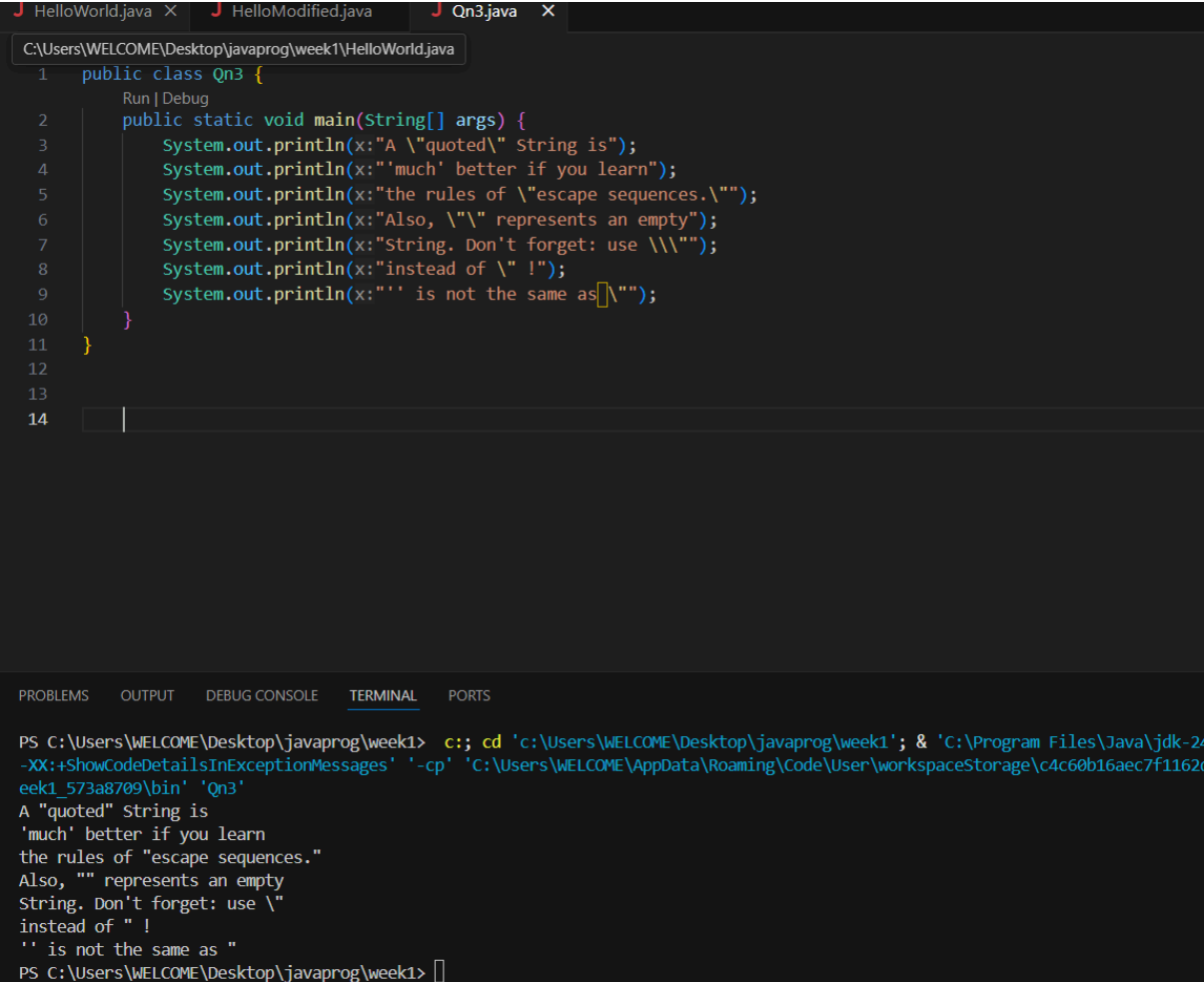
Qn.2

```java
public class HelloModified {
    Run | Debug
    public static void main(String[] args) {
        System.out.print(s:"THis is my first program\n");
        System.out.print(s:"I am on module ST4003CEM");
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

```
eek1_573a8709\bin' 'HelloModified'
THis is my first program
I am on module ST4003CEM
PS C:\Users\WELCOME\Desktop\javaprog\week1> ^C
PS C:\Users\WELCOME\Desktop\javaprog\week1>
PS C:\Users\WELCOME\Desktop\javaprog\week1>  c:; cd 'c:\Users\WELCOME\Desktop\javaprog\week1'; & 'C:\F
-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WELCOME\AppData\Roaming\Code\User\workspaceSt
eek1_573a8709\bin' 'HelloModified'
THis is my first program
I am on module ST4003CEM
PS C:\Users\WELCOME\Desktop\javaprog\week1>
```
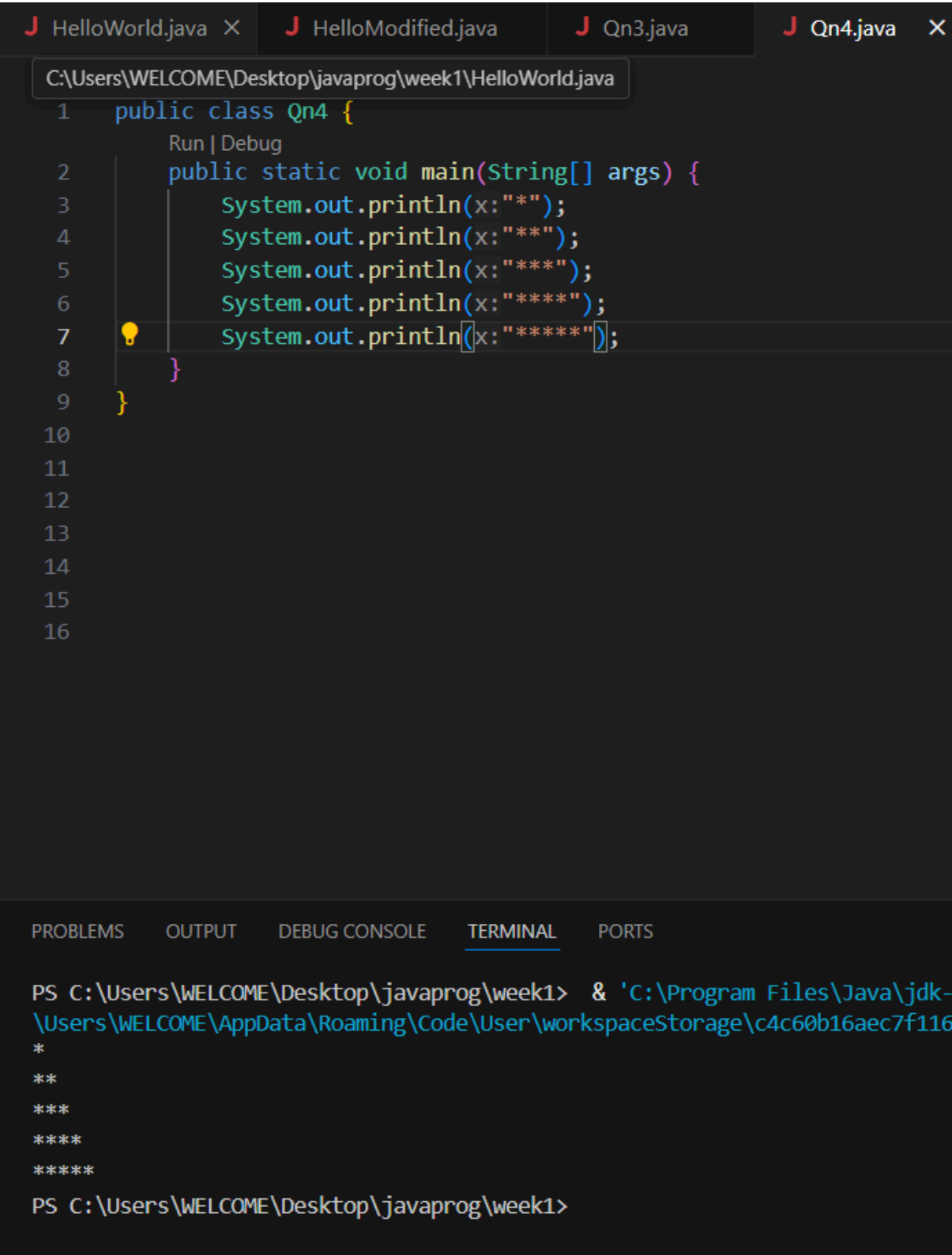
Search week1 — HelloModified.java - week1 - Visual Studio Code

Qn.3

```java
public class Qn3 {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"A \"quoted\" String is");
        System.out.println(x:"'much' better if you learn");
        System.out.println(x:"the rules of \"escape sequences.\"");
        System.out.println(x:"Also, \"\" represents an empty");
        System.out.println(x:"String. Don't forget: use \\\"");
        System.out.println(x:"instead of \" !");
        System.out.println(x:"'' is not the same as \"\"");
    }
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\WELCOME\Desktop\javaprog\week1>  c:; cd 'c:\Users\WELCOME\Desktop\javaprog\week1'; & 'C:\Program Files\Java\jdk-24
-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WELCOME\AppData\Roaming\Code\User\workspaceStorage\c4c60b16aec7f11620
eek1_573a8709\bin' 'Qn3'
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\WELCOME\Desktop\javaprog\week1>
```
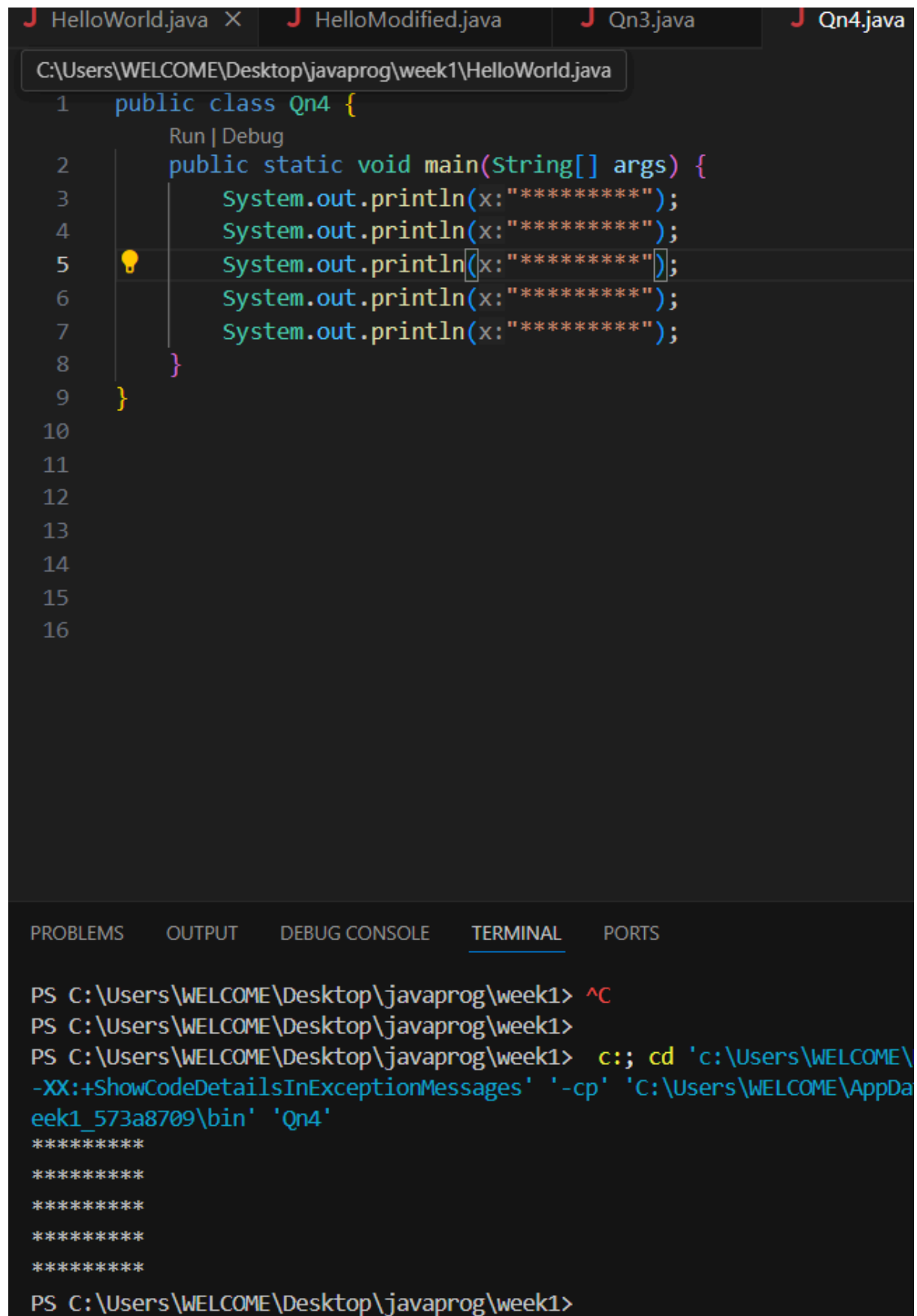
Qn.4

```java
public class Qn4 {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"*");
        System.out.println(x:"**");
        System.out.println(x:"***");
        System.out.println(x:"****");
        System.out.println(x:"*****");
    }
}
```

C:\Users\WELCOME\Desktop\javaprog\week1\HelloWorld.java

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\WELCOME\Desktop\javaprog\week1>  & 'C:\Program Files\Java\jdk-
\Users\WELCOME\AppData\Roaming\Code\User\workspaceStorage\c4c60b16aec7f116
*
**
***
****
*****
PS C:\Users\WELCOME\Desktop\javaprog\week1>
```
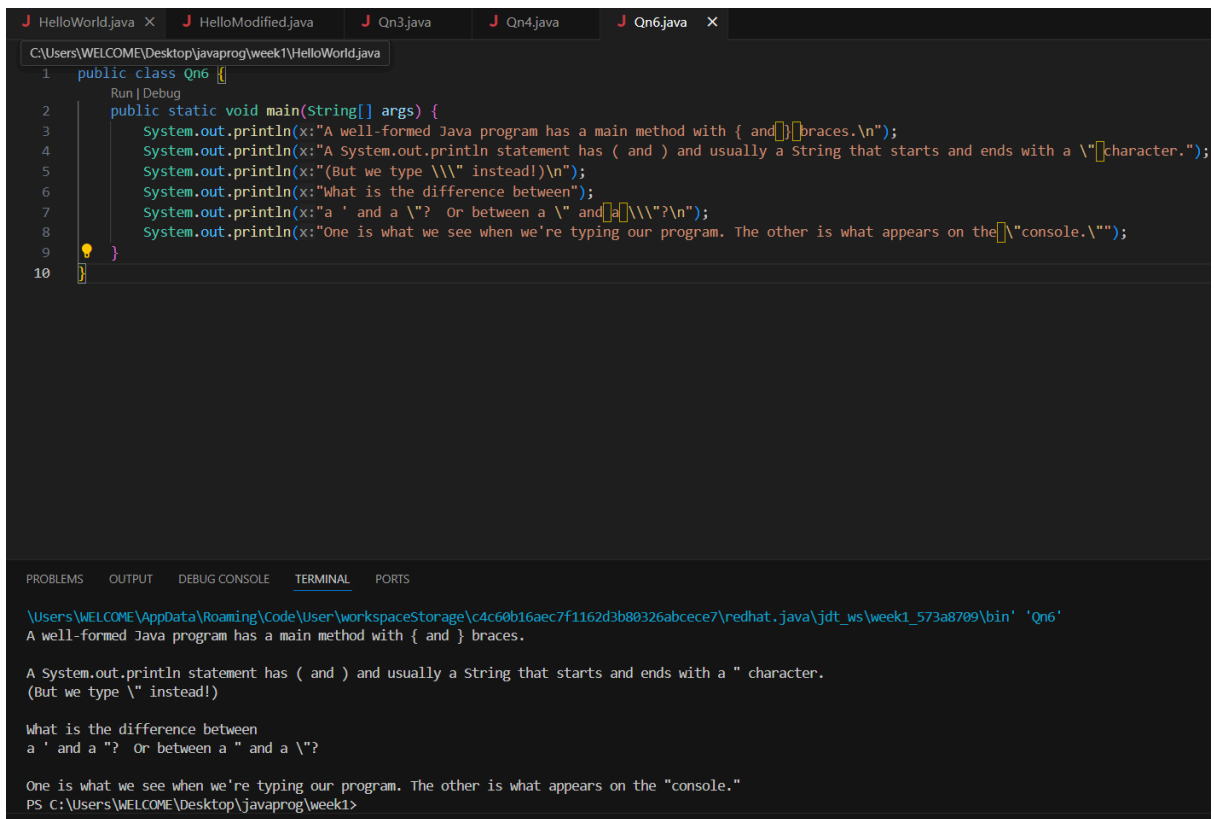
Qn.5

C:\Users\WELCOME\Desktop\javaprog\week1\HelloWorld.java

```java
public class Qn4 {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
        System.out.println(x:"*********");
    }
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\WELCOME\Desktop\javaprog\week1> ^C
PS C:\Users\WELCOME\Desktop\javaprog\week1>
PS C:\Users\WELCOME\Desktop\javaprog\week1>  c:; cd 'c:\Users\WELCOME\
-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WELCOME\AppDa
eek1_573a8709\bin' 'Qn4'
*********
*********
*********
*********
*********
PS C:\Users\WELCOME\Desktop\javaprog\week1>
```

Qn.6


```java
public class Qn6 {
    Run | Debug
    public static void main(String[] args) {
        System.out.println(x:"A well-formed Java program has a main method with { and } braces.\n");
        System.out.println(x:"A System.out.println statement has ( and ) and usually a String that starts and ends with a \" character.");
        System.out.println(x:"(But we type \\\" instead!)\n");
        System.out.println(x:"What is the difference between");
        System.out.println(x:"a ' and a \"?  Or between a \" and a \\\"?\n");
        System.out.println(x:"One is what we see when we're typing our program. The other is what appears on the \"console.\"");
    }
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
\Users\WELCOME\AppData\Roaming\Code\User\workspaceStorage\c4c60b16aec7f1162d3b80326abcece7\redhat.java\jdt_ws\week1_573a8709\bin' 'Qn6'
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:\Users\WELCOME\Desktop\javaprog\week1>
```