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

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

```
amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/" && javac Hello.java
Hello, World!
amritchand@Amrits-MacBook-Air week1 %
```

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

This is my first program

I am on module STW4003CEM

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

```
Next.java > ...
1    public class Next {
         Run | Debug
2        public static void main(String[] args) {
3            System.out.print(s:"This is my first program\n");
4            System.out.print(s:"I am on module STW4003CEM\n");
5        }
6    }
7
```

```
amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/" && javac
This is my first program
I am on module STW4003CEM
amritchand@Amrits-MacBook-Air week1 %
```

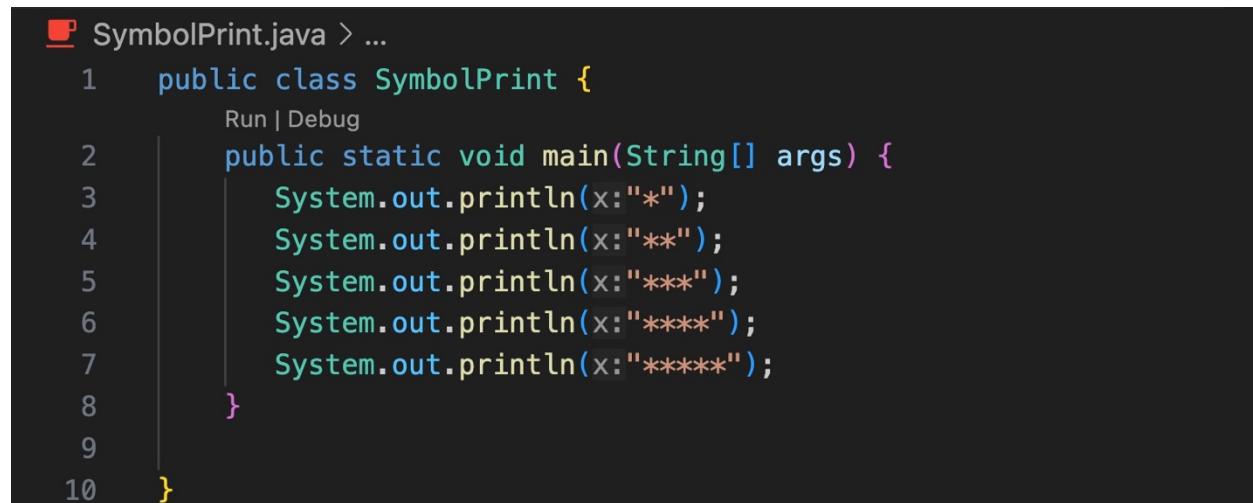3. **Write a program that prints the following output:**

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 "

```java
Que3.java > ...
1    public class Que3 {
         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
```

```
amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/"
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 "
amritchand@Amrits-MacBook-Air week1 %
```

4. WAP that prints the following pattern:

*

**

***

****

*****

```java
SymbolPrint.java > ...
1    public class SymbolPrint {
         Run | Debug
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   }
```

```
amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/"
SymbolPrint
*
**
***
****
*****
amritchand@Amrits-MacBook-Air week1 %
```

5. WAP prints the following pattern:

****

****

****

****

****

```
15    public class SymbolPrint {
         Run | Debug
16        public static void main(String[] args) {
17            System.out.println(x:"*********");
18            System.out.println(x:"*********");
19            System.out.println(x:"*********");
20            System.out.println(x:"*********");
21            System.out.println(x:"*********");
22        }
23
24    }
```

```
● amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/"
  SymbolPrint
  *********
  *********
  *********
  *********
  *********
○ amritchand@Amrits-MacBook-Air week1 %
```

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."

```java
TextPrint.java > ...
1    public class TextPrint {
         Run | Debug
2        public static void main(String[] args) {
3            System.out.println(x:"A well-formed Java program has a main method with { and } braces.");
4            System.out.println();
5            System.out.println(x:"A System.out.println statement has ( and ) and usually a String that starts and");
6            System.out.println(x:"ends with a \" character.");
7            System.out.println(x:"(But we type \\\" instead!)");
8            System.out.println(x:"What is the difference between");
9            System.out.println(x:"a ' and a \"?  Or between a \" and a \\\"?");
10           System.out.println();
11           System.out.println(x:"One is what we see when we're typing our program. The other is what appears on the \"console.\"");
12       }
13
14   }
```

```
● amritchand@Amrits-MacBook-Air week1 % cd "/Users/amritchand/Desktop/week1/" && javac TextPrint.java && java Te
  xtPrint
  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."
○ amritchand@Amrits-MacBook-Air week1 %
```