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

```
public class Hello are a styles.css

| public class Hello {
| Run | Debug |
| 2 | public static void main(String[] args) {
| 3 | System.out.println(x:"Hello");
| 4 | }
| 5 | }
| 6 |
| PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL SOURCE CONTROL

PS C:\Users\A S U S\Desktop\websites\ cd "c:\Users\A S U S\Desktop\websites\ java\"; if ($?) { javac Hello.java }; if ($?) { java Hello }
| Hello |
| PS C:\Users\A S U S\Desktop\websites\ 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.

```
🗬 responses.py
                  ■ Hello.java X
                                   Hello.class
                                                   styles.css
java > 👤 Hello.java > ...
       public class Hello {
           public static void main(String[] args) {
                System.out.print(s:"Hello\n");
                System.out.print(s:"This is my first program\n");
                System.out.print(s:"I am on module ST4003CEM\n");
  8
                                           TERMINAL
PS C:\Users\A S U S\Desktop\websites> cd "c:\Users\A S U S\Desktop\websites\java\" ; if ($?) { javac Hello.java } ; if ($?) { java Hello }
Hello
 This is my first program
 I am on module ST4003CEM
PS C:\Users\A S U S\Desktop\websites\java> [
```

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 "

```
responses.py

■ Hello.java ×

                                  Hello.class
                                                   styles.css
java > 星 Hello.java > ...
       public class Hello {
           public static void main(String[] args) {
               System.out.print(s:"A \"quoted\" String is\n");
                System.out.print(s:"'much' better if you learn\n");
                System.out.print(s:"the rules of \"escape sequences.\"\n");
                System.out.print(s:"Also, \"\" represents an empty\n");
                System.out.print(s:"String. Don't forget: use \\\"\n");
                System.out.print(s:"instead of \" !\n");
                System.out.print(s:"\" is not the same as \"");
  12
                                          TERMINAL
PS C:\Users\A S U S\Desktop\websites> cd "c:\Users\A S U S\Desktop\websites\java\"; if ($?) { java Hello.java }; if ($?) { java Hello.java };
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\A S U S\Desktop\websites\java>
```

4. WAP that prints the following pattern:

```
*

**

**

***
```

```
🔷 responses.py
                   ■ Hello.java X
                                     HelloWorld.java
                                                           Hello.class
                                                                            styles.css
java > 👤 Hello.java > ...
        public class Hello {
            public static void main(String[] args) {
                System.out.print(s:"*\n");
System.out.print(s:"**\n");
                System.out.print(s:"***\n");
                System.out.print(s:"****\n");
                 System.out.print(s:"****\n");
  10
                                             TERMINAL
PS C:\Users\A S U S\Desktop\websites> cd "c:\Users\A S U S\Desktop\websites\java\"; if ($?) { java Hello.java }; if ($?) { java Hello.java };
 ***
 ****
 ****
PS C:\Users\A S U S\Desktop\websites\java>
```

5. WAP prints the following pattern:

```
*******

*******

********
```

```
<code-block> responses.py</code>
                    ■ Hello.java X
                                     HelloWorld.java
                                                            Hello.class
                                                                              styles.css
java > 里 Hello.java > ...
        public class Hello {
             public static void main(String[] args) {
                 System.out.print(s:"********\n");
System.out.print(s:"*******\n");
                 System.out.print(s:"*******\n");
                 System.out.print(s:"*******\n");
                 System.out.print(s:"*******\n");
                                              TERMINAL
 PS C:\Users\A S U S\Desktop\websites> cd "c:\Users\A S U S\Desktop\websites\java\" ; if ($?) { javac Hello.java } ; if ($?) { java Hello }
 ******
 PS C:\Users\A S U S\Desktop\websites\java>
```

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."

```
■ Hello.java × ■ Hello.class

responses.py
                                                  styles.css
java > 👤 Hello.java > ..
       public class Hello {
           public static void main(String[] args) {
               System.out.print(s:"A well-formed Java program has a main method with { and } braces.\n");
               System.out.print(s:"\nA System.out.println statement has ( and ) and usually a String that starts and ends with a \" character.");
               System.out.print(s:"\n(But we type \\\" instead!)\n");
               System.out.print(s:"\nWhat is the difference between");
               System.out.print(s:"\na ' and a \"? Or between a \" and a \\\"?\n");
               System.out.print(s:"\nOne is what we see when we're typing our program. The other is what appears on the \"console.\"");
                                          TERMINAL
PS C:\Users\A S U S\Desktop\websites> cd "c:\Users\A S U S\Desktop\websites\java\" ; if ($?) { javac Hello.java } ; if ($?) { java 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
    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\A S U S\Desktop\websites\java>
```