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Batch:38

Task

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

```
public class Hello {  
    Run | Debug  
    public static void main(String[] args) {  
        System.out.println(x:"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.

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

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 "

```
public class EscapeExample {  
    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 \"");  
    }  
}
```

4. WAP that prints the following pattern:

*

**

```
public class Pattern1 {  
    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:*****");  
    }  
}
```

5. WAP prints the following pattern:

```
public class Pattern2 {  
    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:"*****");  
    }  
}
```

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."

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