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Batch: 38th computing

Task To Do:

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! \nThis is my  
first program. \nI am on module ST4003CEM ");  
    }  
}
```

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 Hello {  
    Run | Debug  
    public static void main(String[] args) {  
  
        System.out.println(x:"A \"quoted\" String is  
        \n\"much\" better if you learn the rules of  
        \"escape sequences.\" ");  
        System.out.println(x:" \"\" represents an empty  
        string");  
        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(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!)  
        ");  
        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.\n");  
    }  
}
```