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Batch: 38

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

```
J hello.java > ...
1  public class hello {
    Run | Debug
2  public static void main(String[]args){
3      System.out.println(x:"Hello World!");
4  }
5  }
6
7
```

```
-xx.+showcodeDetailsInExceptionMe
1_de018fbd\bin' 'hello'
Hello World!
PS C:\week 1>
```

Question 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.

```
J HelloWorld.java > ...
1  public class HelloWorld{
    Run | Debug
2  public static void main(String[]args){
3      System.out.print(s:"This is my first program\nI am on module ST4003CEM");
4  }
5  }
6
```

```
This is my first program
I am on module ST4003CEM
PS C:\week 1> 
```

Question 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 "

```
J HelloWorld.java > ? HelloWorld > ? main(String[])
1 public class HelloWorld{
    Run | Debug
2     public static void main (String[] args){
3         System.out.println("A \"quoted\" String is\n" + "'much' better if you learn\n" +
4             "the rules of\"escape sequences.\\\"\\n\"+ "Also, \"\"represents an empty\n" +
5             "String. Don't forget: use\\\"\\n\" + "instead of \" !\\n\n\"+
6             "\"' is not the same as \"");
7     }
8 }
```

```
hat.java\jdt_ws\week 1_de018fbd\bin' 'HelloWorld'
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 " !
the rules of"escape sequences."
Also, ""represents an empty
String. Don't forget: use\"
instead of " !

the rules of"escape sequences."
Also, ""represents an empty
String. Don't forget: use\"
instead of " !

' is not the same as "
PS C:\week 1> 
```

Question 4. WAP that prints the following pattern:

```
*  
  
**  
  
***  
  
****  
  
*****
```

```
J HelloWorld.java > ...  
1 public class HelloWorld{  
    Run | Debug  
2     public static void main(String[]args){  
3         System.out.println(x:"*\n**\n***\n****\n*****");  
4     }  
5 }
```

```
hat.java\jdt_ws\week_1_de018fbd\b  
*  
**  
***  
****  
*****  
PS C:\week 1> 
```

Question 5. WAP prints the following pattern:

```
*****  
  
*****  
  
*****  
  
*****  
  
*****
```

```
J HelloWorld.java > ...  
1 public class HelloWorld{  
    Run | Debug  
2     public static void main(String[]args){  
3         System.out.println(x:"*****\n*****\n*****\n*****\n*****");  
4     }  
5 }
```

```
*****  
*****  
*****  
*****  
*****  
PS C:\week 1> 
```

Question 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."

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

A well-formed Java program has a main method with {and} braces.

A sytem.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:\week 1> █