





Task 1

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ST4003CEM Object Oriented Programming
Submitted to Prabisha Khadka
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1. Write a program that prints **Hello World!** to the console. Save the program as Hello.java.

Output:

```
PS D:\L\OOP\Week 1> & 'D:\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages
' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\d01add7590f59a9d2cbc31c8c6cb30b4\redhat.java\jdt
   _ws\Week 1_5def7640\bin' 'Hello'
Hello World!
PS D:\L\OOP\Week 1>
```

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.

```
Hello World!

PS D:\L\OOP\Week 1> ^C

PS D:\L\OOP\Week 1> ^C

PS D:\L\OOP\Week 1> d:; cd 'd:\L\OOP\Week 1'; & 'D:\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCode

DetailsInExceptionMessages' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\d01add7590f59a9d2cbc31

c8c6cb30b4\redhat.java\jdt_ws\Week 1_5def7640\bin' 'Hello'

Hello World!

This is my first program

I am on module ST4003CEM

PS D:\L\OOP\Week 1>
```

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 "
```

```
PS D:\L\OOP\Week 1> & 'D:\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages
' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\d01add7590f59a9d2cbc31c8c6cb30b4\redhat.java\jdt
_ws\Week 1_5def7640\bin' 'Output1'
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 D:\L\OOP\Week 1>
```

4. WAP that prints the following pattern:

**

Output:

```
PS D:\L\OOP\Week 1> & 'D:\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages
' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\d01add7590f59a9d2cbc31c8c6cb30b4\redhat.java\jdt
_ws\Week 1_5def7640\bin' 'Pattern1'
*

**

***

***

***

PS D:\L\OOP\Week 1>
```

5. WAP prints the following pattern:

******* ******* ******

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."

```
PS D:\L\OOP\Week 1> & 'D:\Java\jdk-24\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages
' '-cp' 'C:\Users\hp\AppData\Roaming\Code\User\workspaceStorage\d01add7590f59a9d2cbc31c8c6cb30b4\redhat.java\jdt
   _ws\Week 1_5def7640\bin' 'Output2'
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."
PS D:\L\OOP\Week 1>
```