

## CSY1019 Week 1

### Lab Exercises (In Java):

1. Write a program that prints **Hello World!** to the console. Save the program as Hello.java.
2. Extend/Modify the above program to print two additional lines:  
This is my first program  
I am on module CSY1019
3. Extend/Modify the above program so that it uses only `System.out.print` (**not** `println`) and produces the same output.  
[Hint: Make use of escape sequences]
4. 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 "  
  
5. Write a program that prints the following output:  
  \  
  \\/  
  \\\\/  
  \\\\\\/  
  ///\\  
  //\\  
  /  
  
6. Write a program 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."

7. The following program snippet consists of errors. Copy and Paste the above snippet into your editor. Correct all errors and run the program so that it produces the expected output shown below:

```
public class Buggy
{
    public static main(String args) {
        System.out.println(Hello world);
        system.out.Pritln("Do you like this program?");
        System.out.println()

        System.println("I wrote it myself.");
    }
}
```

```
Hello world
Do you like this program?

I wrote it myself.
```

8. Write a program that produces the following output:

```
  / \
 /   \
/     \
- "- ' - " - ' - " -
 \     /
  \   /
  / \
```

9. The following program snippet consists of errors. Copy and paste the above snippet. Correct all errors and run the program so that it produces the expected output shown in the box below:

```
// *****
Problems.java
```

Provide lots of syntax errors **for** the user to correct.

```
*****
```

[illegible]

```
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\
This "program" used to have lots of problems,"\
but if it prints this, you fixed them all.".\
\\//\\//\\//\\//\\//***' Hurray! ***\
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```