**Lab 01 – Hello World**

Open BlueJ, and create a new BlueJ project titled **Lab01-HelloWorld** in your CS\LABS folder (H:\CS\Labs).

Create and open a new class with this code skeleton:

//Name: 

public class HelloWorld

{

public static void main(String[] args)

{

//code goes here

}

}

Using what we learned about Java print statements, add code into your main method to produce the outputs in the problems below.

**Before each problem, insert a COMMENT with the problem number.** A comment is added with two slashes, //. They’re for your benefit only - the computer doesn’t see them.

Example: //this is a comment

1. Write the code to print:

Hello World!

1. Write the code to print:

Hello

World!

1. Write the code to print (note the blank line between words!):

Hello

World!

1. Write the code to print:

\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* Hello \*\*\*

\*\*\* World \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*

1. With TWO PRINT STATEMENTS write the code to print:

Hello World!

1. With ONE PRINTLN STATEMENT PER LINE, write the code to print:

###

# #

###

1. With THREE PRINTLN STATEMENTS and ONE PRINT STATEMENT, write the code to print **your name** to the screen three times, like this (assuming your name is Sarah):

Sarah, Sarah

Sarah

1. With ONE PRINTLN STATEMENT and TWO PRINT STATEMENTS, write the code to print:

small MeDiUm BIG!!!

1. Write the code to print the following:

Java is

cool

!

1. (Riddle) Mary’s father has 5 daughters – Nana, Nene, Nini, Nono. What is the fifth daughter’s name? Put your answer in your code as a comment.

**I am a big fan of riddles and critical thinking in general. In every lab, you’ll find at least one riddle to solve! Riddles are for fun and NOT required to get 100 - if you work at them, they may make you a better thinker!**

**ASCII art**

**In the same program (class),** using what we know about Java print statements, write a program that creates a stunning picture using “ASCII art”. ASCII art refers to the use of characters, such as \*, +, =, to create a picture. An example of ASCII art:

@..@

(----)

(> \_\_ <) (a frog!)

^^ ^^

Requirements:

* **Must be made by you** (*not* copy / pasted from the internet - inspiration is ok though)
* Must span **at least 8 lines**
* You can use any of the following characters:

?~!@#$|%^&()[]-\_=+.,<> (and any letters or numbers)

Certain characters are protected in Java (like the \ character) and you will get an error if used

**(Advanced) V-ery confusing**

*Problems in red with an* ***(Advanced)*** *tag are not required to get 100 points but are interesting problems of a challenging nature. Give them a shot if you have time!*

Write the code to print the figure shown below. Note that this figure contains some special characters that will require some research to print properly.

\\\///

\\//

\/