**Unit 1 Homework/Lab**

**Please go over keywords and concepts at:**

[**https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-7-summary.html**](https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-7-summary.html)

**Also, please complete the questions in the CSAWESOME textbook on your own time, the question can be found at:**

[**https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-8-practice-mixed-code.html**](https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-8-practice-mixed-code.html)

[**https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-9-practice-coding.html**](https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/topic-1-9-practice-coding.html)

[**https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/Exercises.html**](https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit1-Getting-Started/Exercises.html)

This is the lab we worked on today:

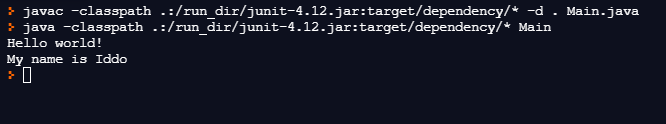
1. Using a multiline comment (use /\* to start the comment and \*/ to end the comment) write the name of the file, your name, and the date on separate lines.

On **ALL** of the question in this homework use single line comments (//) to state which question you are answering.

1. Run the “hello world” program on Repl.it

Print a new line with the words “My name is ”, then using a new print statement print your name on the same line. (total of 3 print statements)

The output should look like this:



1. Declare four variables, use logical naming for all variables:

One of type string, assign your name to this variable.

One of type int, assign your age to this variable.

One of type double, assign to this variable a number between 5 and 6.

One of type Boolean, its value should be true if this homework is hard and false if this homework is easy. (Assign the value of what you think of the homework now, we will change this value throughout this homework).

1. Using the variable of type double from the previous question, use arithmetic operations and assignment operators to change the value of the variable to the number 42.2

Try using the variables you already made to do these operations, for example:

int a =56;

double b =5.5;

b += a;

b -= 20;

b = b+0.7; //if you print b it will be equal to 42.2

1. Repeat question 4 two more times with your original numbers, get creative! (can you do it in only 1 line of code? Can you do it with the help of the % operator? Can you use all operators and assignment operators?)
2. Use casting methods to assign the value of your variable of type double to a variable of type int. Do this twice, The first time round the value to 42 and the second time round it to 43.

For example:

double a=27.2;

int b,c;

b=(int)(a); //b will equal 27

c=(int)(a+1); //c will equal 28

1. Use casting methods and arithmetic operators to create a new variable of type double for your age using the variable of type int for your age. (What happens when we give the two variables the same name?)

For example:

int iddoAge = 23;

double iddosAge= (double)(iddoAge) + 0.75; //I am born in October so I am ¾ way to my 24th

//iddosAge should now be 23.75

1. Was this homework difficult? Change the value of the boolean variable we initialized earlier

to reflect your feelings.

1. **BONUS** (will be part of Unit 2 Homework Lab)

In your program output the following with the help of escape sequences:

Pikachu welcomes you to the world of Pokemon!

(\\_\_/)

(o^.^)

z(\_(“)(“)

(Question taken from TEALS program)