Submission

When we are done, submit work before the next class. If you cannot submit by this time, try to do so as soon as possible after class. Copy this lab with your answers and paste your into the Laulima assignment submission box to [Laulima Assignment Lab 5](https://laulima.hawaii.edu/). If you do not submit something to Laulima you will not get credit.

Exercise 1: Data types and output (>5 min DNF)

Start by creating a Lab5 directory in your repo and add a new file Ex1.html and add the usual HTML tags for a web page. Start your http-server and load this page your browser then open the JS console.

For each kind of data presented, state what data type would be useful to represent it, make an example of the data and output it as indicated. Note that in the console everything will automatically be put into console.log() to output so you can just type the expression to output.

<your full name> //String due to "".

<number of months since your last birthday>  // Integer because it is a whole number without decimal points.

<approximate age in fractions of year> //Floating Point because it is a fraction, and if inputed a certain way could include decimals.

<true or false - you are over 21 years old?> //Boolean because it is a true or false statement.

Exercise 2: Assigning variables with expressions (>5 min DNF)

a) Write Javascript statements that assign to a variable the number of kids you might want (or have already) and displays the value of this variable (e.g. "I would like to have " + var + " kids"). Use an appropriate, meaningful variable name (not var as it is now!).

b) Repeat the above except multiply the number of kids by your age (yes, this may be a large number of kids!).

c) Now multiply the above by the variable stupid. What result did you get and why is it likely not what is desired? Did you get a warning message? If so, explain why. If you did not, explain what warning message you should get here.  //The  var stupid = ; was not defined so it would not write out the desired strings of text.I did recieve an error message that is in the browser sites console/sources because it could not find/identify a variable called "stupid"

Exercise 3: String expressions (>5 min DNF)

a) Write JS statements to create a string variable containing your first name. Use an appropriate, meaningful variable name (e.g myGloriousFirstName).

b) Now create variables for your last name and middle name. If you don’t have a middle name, use “Rick” (it is, after all, a lovely name).

c) Now create a single string variable that puts all three parts of your name together, via concatenation, an HTML line break, then a your initials taken as the first characters from the first and last name variables. Don’t forget spaces between your names and the periods after each initial :)

d) Now create a second string variable that puts all three parts of your name together, via concatenation, with an HTML line break between each of your names, where your first name is **Bold**, your middle name is in *Italics*, and your last name is in a VERY LARGEfont.

Exercise 4: Formatting floats (>5 min DNF)

Use number.toFixed() to output

The tax on <your name>’s bill is <4.13% \* amount>

Only print 2 decimal points for the floating point value <0.0413 \* amount> You may choose any amount between $1.00 and $500.00.

***My code:***

<script>

        //Ex1

        var MyFullName = "Peter Rivera-Concannon"; //String due to "".

        var NumOfMonthsSinceLastBday = 5; // Integer because it is a whole number without decimal points.

        var AgeInFractions = 100/5; //Floating Point because it is a fraction, and if inputed a certain way could include decimals.

        var AmIOver21 = false; //Boolean because it is a true or false statement.

        document.write(MyFullName + ', ' + NumOfMonthsSinceLastBday + ', ' + AgeInFractions + ', ' + AmIOver21);

        //Ex2

        var NumOfKids = 2;

        document.write("<br>"+"I would like to have " + NumOfKids + " Kids");

        document.write("<br>"+ "I would like to have " + NumOfKids\*AgeInFractions + " Kids");

        //document.write("<br>"+ "I would like to have " + NumOfKids\*AgeInFractions\*stupid + " Kids");

        //The  var stupid = ; was not defined so it would not write out the desired strings of text.I did recieve an error message that is in the browser sites console/sources because it could not find/identify a variable called "stupid"

        //Ex3

        var firstName = "Peter";

        var lastName = "Rivera-Concannon";

        var middleName = "Kaleo"; //No, my middle name is not after the newspaper hah

        InitialsFullName = firstName[0] + ' ' + middleName[0] + ' ' + lastName[0];

        FullName = "<p>" + firstName.bold() + "</p>" + "<p>" + middleName.italics() + "</p>" + "<p>" + lastName.fontsize(56) + "</p>";

        document.write("<br>" + InitialsFullName + "<br>" + FullName);

        //Ex4

        var subTotal = 256.79;

        var taxRate = 0.04721;

        var total = subTotal + (subTotal \* taxRate);

        document.write("<p> The tax on Peter's Bill makes the total equal to: $" + total.toFixed(2) + "</p>");

    </script>