What are functions?

Algorithm ( sequence of steps)

What do functions do?

Do verbs such as 1 + 1 and the verb is “plus”

Do a sequence of steps

Allow us to name that sequence of steps

When do we use functions?

When you have a related sequence of steps

When we’re going to reuse something

When naming a chuck of code helps us understand what that code does

Why do we use functions?

Reason about the business logic

We’re able to code as close to natural language as possible

What does return do?

Return gives us a value as output

Return vs. console.log at the end of a function

Stops the function

Return vs. console.log at the end of a function (or else you won’t see that return value)

function isOdd (number){

var output = (number % 2 == 0) ? true : false;

return output;

}

function isOdd(number) {

var output = (number % 2 == 0) ? true : false;

console.log(output);

}

var resuilt = isOdd(2); (this is called calling a function)

console.log(result);

the first isOdd will work better because you can actually do something with return output but not with console.log, you can console.log but outside the function

remember to push everything to GitHub

Iffe’s go at the beginning and the end of the document. You want to add them when you’re done with the document. It helps to protect your code.

Review:

Functions and finish challenge

review up until Splice for Tuesday night 3.5.2 (Manipulating Arrays)

try the splicing exercise

Work on ecommerce website

Notes on Arrays:

Imagine each piece or element of an array , each element on an array is its own value

An array is also a value so you can have an array within an array

We do plural variable names for arrays

Var colors = [“papayawhip”, “honeydew”, “blue”, “hotpink”, salmon]

Colors [3]

“hot pink”

“banana”.length

6

colors.length

5

colors[colors.length]

colors[colors.length – 1]

colors[colors.length – 2](this is to access the second to last element on the array)

“hot pink”

var shapes = [“circle”, [“rectangle”, “square”]]

shapes

the number in the brackets is called an index also called key or keys

toppings

[“pineapples”, null , “olive”, “chile”]

toppings[1] = “jalapenos”

toppings

[“pineapple”,”jalapenos”, olive, “chile”]

for (var i = 0; i < toppings.length; i += 1){

console.log(toppings[i]

}

to continue printing everything until it has printed everything on the array

“banana”

“banana”[0]

b

“banana” [1]

a

(function(){

"use strict";

// TODO: Create an array of 4 people's names using literal array notation, in a variable called 'names'.

var names = ["Sarah","Carla","John","Tristan"];

// TODO: Create a log statement that will log the number of elements in the names array.

console.log(names.length);

// TODO: Create log statements that will print each of the names array elements individually.

for (var i = 0; i < names.length; i += 1){

console.log(names[i]);

}

var element;

element = names [0];

console.log(element);

element = names [1];

console.log(element;

element = names[2];

console.log(element);

element = names [3];

console.log(element);

or

var element;

for (var i = 0; I <names.length; I += 1){

element = names[i];

console.log(element);

}

var names = [“John”,”Paul”,”George”,”ringo”;

For Each Loop Iteration

forEach loop that runs on an array

names.forEach(function(element, index, array){

console.log (element == array[index]);

console.log (element == names[index]);

console.log(element);

someArray.push(“third place.. so sad”);

3

someArray

[“first prize”,””second place”, “third place.. so sad”]

someArray.push(“Bob);

[“first prize”,””second place”, “third place.. so sad”, “Bob”]

someArray.unshift(“the real first place”)

5

someArray

[“the real first place,”first prize”, “second place”, “third place ..so sad”, “Bob”]

unshift = add to the beginning of the list

someArray

someArray.pop()

“Bob”

Remember the following terms:

push = adds a value or values at the very end of the array // someArray.push()

pop = removes from the end of the array // someArray.pop()

shift = removes the first element //someArray.shift()

unshift = adds to the beginning of the array //someArray.unshift()

});