**Udemy JavaScript Challenges**

**Challenge: Changing Casing in Text**

var name = prompt("Please enter you name:");

var firstChar = name.slice(0,1);

var upperCaseFirstChar = firstChar.toUpperCase();

var restOfName = name.slice(1, name.length);

var lowerCaseRestOfName = restOfName.toLowerCase();

var capitalizedName = upperCaseFirstChar + lowerCaseRestOfName;

alert("Hello, " + capitalizedName + "!");

**Calculating Human Age from Dog Age**

var dogAge = prompt("How old is your dog?");

var humanAge = ((dogAge - 2) \* 4) + 21;

alert("Your dog is " + humanAge + " years old in human years.");

**Time Remaining**

var yearsLeft = (90 - age);

var monthsLeft = (yearsLeft \* 12);

var weeksLeft = (yearsLeft \* 52);

var daysLeft = (monthsLeft \* 365);

console.log("You have " + daysLeft + " days, " + weeksLeft + " weeks, and " + monthsLeft +

" months left.");

**Bottles of Milk**

function getMilk(money, costPerBottle) {

console.log("leaveHouse");

console.log("moveRight");

console.log("moveRight");

console.log("moveUp");

console.log("moveUp");

console.log("moveUp");

console.log("moveUp");

console.log("moveRight");

console.log("moveRight");

console.log("buy " + calcBottles(money, costPerBottle) + " bottles of milk.");

console.log("moveLeft");

console.log("moveLeft");

console.log("moveDown");

console.log("moveDown");

console.log("moveDown");

console.log("moveDown");

console.log("moveLeft");

console.log("moveLeft");

console.log("enterHouse");

return calcChange(money, 1.5);

}

function calcBottles (startingMoney, costPerBottle) {

var numberOfBottles = Math.floor(startingMoney / costPerBottle);

return numberOfBottles;

}

function calcChange(startingAmount, costPerBottle) {

var change = startingAmount % costPerBottle;

return change;

}

console.log("Hello master, here is your " + getMilk(5, 1.5) + " change.");

**BMI Calculator**

function bmiCalculator (weight, height) {

var squareOfHeight = Math.pow(height, 2);

var bmi = Math.round(weight / squareOfHeight);

return bmi;

}

**Love Calculator**

var loverOne = prompt("Enter the name of the first lover:");

var loverTwo = prompt("Enter the name of the second lover:");

var matchPercent = Math.random();

matchPercent = matchPercent \* 100;

matchPercent = Math.floor(matchPercent) + 1;

alert("The probability of a match is " + matchPercent + "%.");

**More Advanced Love Calculator**

var loverOne = prompt("Enter the name of the first lover:");

var loverTwo = prompt("Enter the name of the second lover:");

var loveScore = Math.random();

loveScore = loveScore \* 100;

loveScore = Math.floor(loveScore) + 1;

if (loveScore > 70) {

alert("Your love score is " + loveScore + "%. " +

"You love each other like Kanye loves Kanye.");

}

if (loveScore > 30 && loveScore <= 70) {

alert("Your love score is " + loveScore + "%.");

}

if (loveScore <= 30) {

alert("Your love score is " + loveScore + "%. " +

"You go together like water and oil");

}

**More Advanced BMI Calculator**

function bmiCalculator (weight, height) {

var heightSquared = Math.pow(height, 2);

var bmi = Math.floor(weight / heightSquared);

var interpretation = "";

if (bmi < 18.5) {

interpretation = "Your BMI is " + bmi +

", so you are underweight."

}

if (bmi >= 18.5 && bmi <= 24.9) {

interpretation = "Your BMI is " + bmi +

", so you have a normal weight."

}

if (bmi > 24.9) {

interpretation = "Your BMI is " + bmi +

", so you are overweight."

}

return interpretation;

}

**Leap Year**

function isLeap(year) {

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*Don't change the code above\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

//Write your code here.

var isLeapYear = false;

if ((year % 4) === 0) {

isLeapYear = true;

} else {

return("Not leap year.");

}

if (((year % 100) === 0) && ((year % 400) === 0)) {

return("Leap year.");

} else if ((year % 100) !== 0) {

return("Leap year.");

} else {

return("Not leap year.")

}

**Guess List Checker**

var guestName = prompt("What is your name?");

var guestList = ["Angela", "Jack", "Pam", "James","Lara", "Jason"];

if (guestList.includes(guestName)) {

alert("Welcome");

} else {

alert("Sorry maybe next time");

}

**FizzBuzz**

var output = [];

var currentNum = 1;

function fizzBuzz() {

if (currentNum % 3 === 0 && currentNum % 5 === 0) {

output.push("FizzBuzz");

} else if (currentNum % 3 === 0) {

output.push("Fizz");

} else if (currentNum % 5 === 0) {

output.push("Buzz");

} else {

output.push(currentNum);

}

currentNum++;

console.log(output);

}

**Who’s Buying Lunch?**

function whosPaying(names) {

/\*\*\*\*\*\*Don't change the code above\*\*\*\*\*\*\*/

//Write your code here \*)

var personPaying = Math.floor((Math.random() \* names.length));

return(names[personPaying] +

" is going to buy lunch today!");

/\*\*\*\*\*\*Don't change the code below\*\*\*\*\*\*\*/

}