**Mark Acebedo**

**Assignment 9**

**Pseudo-Code**

**function dateCalculator()** {

Var fdate = value from element oneDate;

Var oldformat1= get date format for fdate;

Var oldformat2= todays /current date;

Var d1= same as old format1;

Var d2=same as old format2;

Var newformat1=call the function dateFormater(oldformat1) 🡪 to get the mm/dd/yyyy format;

Var newformat2 =call the function dateFormater(oldformat2) 🡪 to get the mm/dd/yyyy format;

Var timeDiff= get both d1 and d2 different in milliseconds;

Var daysDiffCal= convert the milliseconds to days;

If(validation passes/true) {

Use div2.innerHTML to output= "Inputed Date: "+newformat1+" The current date is: "+newformat2+" Days of difference is: " +daysDiff;}

**function dateFormater(newformat)** {

Var currentDt = newformat; <- value from newformat1 and 2;

Var mm = get newformat number for month +1 // Since get.month() starts with “0”;

Var dd = to get date;

Var yyyy = to get the year;

Var date = mm + '/' + dd + '/' + yyyy; // string value with date format mm/dd/yyyy;

Return the date; }

Function validateDate1() {

Var joneDate= value from element oneDate;

Var regex = /^\d{2}\/\d{2}\/\d{4}$/ ; //where it accepts 2 digits / 2 digits / 4 digits;

If(joneDate!==””) { //as long as its not blank

If(regex.test(joneDate)) // meets the valid entry {

Msg1.innerHTML=will not prompt anything;

Return the value TRUE;}

Else { element msg2.innerHTML= "X - Use mm/dd/yyyy date format!"

Return the value TRUE;

} } }

**function randomNumber(){**

var max = get element value "rNumber";

var x=Math.floor(Math.random() \* (max - 10 +1)) + 10; // get random number from 10 to the max entered number;

if (validateNumber()) {

get element "div4".innerHTML="The random whole number between 10 and "+max+" is: "+x;

} }

**function compareWords**() {

var a = = get element value “word1”;

var b = = get element value “word2”;

var l1 = a.length; //length of word1

var l2 = b.length; //length of word2

var res1 = a.substring(0, l1); // word1 substring (starting from “0” to length of L1)

var ctr counter for the loop;

var l2ctr=0

var max=l2-(l1-1);

get element “msg3".innerHTML="";

if(l1>l2) {

element msg3".innerHTML="The string in field 1 must be shorter than field 2"; }

else {

loop for(ctr=0;ctr<=max; ctr++) {

res2=b.substring(l2ctr, l1); //res2 will be the pointer for word2. Where l2ctr will be the start and l1 will be the end for the substring comparison.

if((res1!==res2) && (ctr!==max)) {

increment l2ctr;

increment l1;

}

else if(res1==res2){

get element “div6".innerHTML="Field 1: "+a+", is a SUBSTRING of Field 2: "+b+".";

break;

}

else if(ctr==max) {

get element “div6".innerHTML="Field 1: "+a+", is NOT a SUBSTRING of Field 2: "+b+".";

break;

}} } }