Exercitiile web

Contents

1.SayingHELLO

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Saying Hello</title>
    <script src="01.sayinghello.js"></script>
</head>
<body>
<p id="main">Text will appear here.</p>
<button onclick="myFunction()">Click me</button>
<button onclick="myFunctionChallenge()">Click me</button>
</body>
</html>
```

```
function myFunction(){
  var person = prompt("What is your name?","Mishu");
  if(person!=null){
    document.getElementById("main").innerHTML = "Hello, " + person + ", nice to meet
you.";
  }
}

function myFunctionChallenge(){
    document.getElementById("main").innerHTML = "Hello, " + prompt("What is your
name?","Mishu") + ", nice to meet you";
}
```

---

2. CountingChars

```
<!doctype html>

<html>
   <head>
      <title>Counting characters</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="02.countingChars.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction() {
    var theString = prompt("What is your input string?","Homer");
    if(theString!=""){
        document.getElementById("main").innerHTML = theString + " has " +
theString.length + " characters.";
    } else document.getElementById("main").innerHTML = "Please enter a string.";
}
```

3.PrintingQUOTES

```
<!doctype html>

<html>
    <head>
        <title>Printing quotes</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="03.printingQuotes.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var quote = prompt("What is the quote?", "These are not the droids you are looking
for.");
    var who = prompt("Who said that?", "Obi-wan Kenobi");
    if(quote!==null&&who!==null){
        document.getElementById("main").innerHTML = who + " said \"" + quote + "\"";
    }
}
```

4.MadLib

```
<!doctype html>

<html>
    <head>
        <title>Mad Lib</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="04.madLib.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var noun = prompt("Enter a noun","dog");
    var verb = prompt("Enter a verb", "walk");
    var adjective = prompt("Enter and adjective", "blue");
    var adverb = prompt("Enter an adverb", "quickly");
    document.getElementById("main").innerHTML = "Do you " + verb + " your " +
adjective + " " + noun + " " + adverb + "? That's hillarious!";
}
```

5. Simple MATH

```
<html>
    <head>
        <title>Simple Math</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="05.simpleMath.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var first = prompt("What is the first number", "5");
    var second = prompt("What is the second number", "4");
    document.getElementById("main").innerHTML =
          first + " + " + second + " = " + (+first + +second) + "<br/>" +
          first + " - " + second + " = " + (+first - +second) + "<br/>" +
          first + " / " + second + " = " + (+first / +second) + "<br/>" +
          first + " * " + second + " = " + (+first * +second);
}
```

6.RetirementCalculator

```
<html>
    <head>
        <title>Retirement Calculator</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="06.retirementCalculator.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var age = prompt("What is your current age?","25");
    var retirement = prompt("At what age would you like to retire?", "65");
    var currentYear = new Date().getFullYear();
    parseInt(age);
    parseInt(retirement);
    var yearsLeft = retirement - age;
    document.getElementById("main").innerHTML = "You have " + yearsLeft + " years left
until you can retire. <br/> It's " + currentYear + ", so you can retire in " +
(currentYear + yearsLeft) + ".";
}
```

7.Room AREA

```
<html>
    <head>
        <title>Room area</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="07.roomArea.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <form>
              <input id="r1" type="radio" name="um" value="feet" checked="true">Feet<br>
              <input id="r2" type="radio" name="um" value="feet">Meters<br>
          </form>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    do{
        var length = prompt("What is the length of the room?","15");
    } while(isNaN(length));

    do{
        var width = prompt("What is the width of the room?", "20");
    } while(isNaN(width));

    var sqFeet = length * width;
    var sqMeters = sqFeet * 0.09290304;

    if(document.getElementById("r1").checked){
        document.getElementById("main").innerHTML = "You entered dimensions of " +
length + " feet by " + width + " feet." + "<br/> The area is " + sqFeet + " square
feet.";
    }else if(document.getElementById("r2").checked){
        document.getElementById("main").innerHTML = "You entered dimensions of " +
length + " feet by " + width + " feet." + "<br/> The area is " + sqMeters + " square
meters." ;
    }
}
```

8.Pizza Party

```
<html>
    <head>
        <title>Pizza Party</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="08.pizzaParty.js"></script>
    </head>

    <body>
          <p id="main">Text will appear here.</p>
          <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    do{
        var nrOfPeople = parseInt(prompt("How many people?","8"));
    } while(isNaN(nrOfPeople));
    do{
        var nrOfPizzas = parseInt(prompt("How many pizzas do you have?","2"));
    } while (isNaN(nrOfPizzas));
    var slicePerPerson = (nrOfPizzas * 8) / nrOfPeople;
    var leftoverSlices = (nrOfPizzas * 8) % nrOfPeople;
    document.getElementById("main").innerHTML = nrOfPeople + " people with " +
nrOfPizzas + " pizzas. <br/> Each person gets " + Math.floor(slicePerPerson) + "
pieces of pizza. <br/> There are " + leftoverSlices + " leftover pieces.";
    }
```

9.PaintCalculator

```
<html>
   <head>
      <title>Paint Calculator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="09.paintCalculator.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    do{
        var length = parseInt(prompt("What is the length of the room?","20"));
    } while(isNaN(length));
    do{
        var width = parseInt(prompt("What is the width of the room?","21"));
    } while(isNaN(width));
    var sqFeet = length * width;
    const sqFeetCovered = 350;
    document.getElementById("main").innerHTML = "You will need to purchase " +
Math.ceil(sqFeet/sqFeetCovered) + " gallons of paint to cover " + sqFeet + " square
feet.";
}
```

10.selfCheckout

```
<html>
   <head>
      <title>Self Checkout</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="10.selfCheckout.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
```

```
    </body>
</html>
```

```
function myFunction(){
    var nrOfItems = 3;
    var subtotal = 0;
    var price;
    var quantity;
    for(var i=0; i<nrOfItems; i++){
        do{
            price = prompt("Enter the price of item " + (i+1),Math.random()*100);
        } while (isNaN(price));
        parseFloat(price);
        do{
            quantity = prompt("Enter the quantity of item " +
(i+1),Math.random()*100);
        } while (isNaN(quantity));
        parseFloat(quantity);
        subtotal += price * quantity;
    }
    subtotal = subtotal.toFixed(2);
    var tax = (subtotal * 0.055).toFixed(2);
    var total = (+subtotal + +tax).toFixed(2);
    document.getElementById("main").innerHTML = "Subtotal: $" + subtotal + "<br/> Tax:
$" + tax + "<br/> Total: $" + total;
}
```

11. Currency Conversion

```
<html>
   <head>
      <title>Currency Conversion</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="11.currencyConversion.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    do{
        var amount = prompt("How many euros are you exchanging?","81");
    } while(isNaN(amount));
    var rate = 1.09140;
    var newAmount = (amount*rate).toFixed(2);
    document.getElementById("main").innerHTML = amount + " euros at an exchange rate
of " + rate + " is " + newAmount + " U.S. dollars.";
}
```

12. Computing Simple Interest

```
<html>
   <head>
      <title>Computing Simple Interest</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="12.computingSimpleInterest.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    do{
        var principal = prompt("Enter the principal.","1500");
    } while (isNaN(principal));
    do{
        var rate = prompt("Enter the rate \(1-100 range\).","43");
    } while (isNaN(rate) || ((rate%1)!=0));
    rate=rate/10;
    do{
        var years = prompt("Enter the number of years.","4");
    }while (isNaN(years));

    total = calculateTotalInvestment(principal, rate, years);
    total = total.toFixed(2);

    document.getElementById("main").innerHTML = "After " + years + " years at " + rate
+ "%, the investment will be worth $" + total;
    for(var i=1;i<=years;i++){
        var subtotal = +principal+calculateYearlyInvestment(principal,rate)*i;
        subtotal = subtotal.toFixed(2);
        document.getElementById("main").innerHTML += "<br/> Year " + i + ": $" +
subtotal;
    }
}

function calculateTotalInvestment(principal, rate, years){
    var interest = calculateYearlyInvestment(principal,rate)*years;
    var total = +principal + +interest;
    return total;
}

function calculateYearlyInvestment(principal,rate){
    var yearlyInterest = +principal * +rate/100;
    return yearlyInterest;
}
```

13.Determining Compound Interest

```
<html>
   <head>
      <title>Determining Compound Interest</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="13.determiningCompoundInterest.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
        <button onclick="myOtherFunction()">Don't click me</button>
   </body>
</html>
```

```
function myFunction() {
    do {
        var principal = prompt("Enter the principal.","1500");
    } while (isNaN(principal));
    do{
        var rate = prompt("Enter the rate \(1-100 range\).","43");
    } while (isNaN(rate) || ((rate%1)!=0));
    rate=rate/10;
    do{
        var years = prompt("Enter the number of years.","6");
    }while (isNaN(years));
    do{
        var timesCompound = prompt("Enter the number of times the interest is
compounded per year.","4");
    } while (isNaN(timesCompound));

    total = calculateTotalCompoundInvestment(principal, rate, years, timesCompound);
    total = total.toFixed(2);

    document.getElementById("main").innerHTML = "After " + years + " years at " + rate
+ "% and compounded " + timesCompound + " times" + ", the investment will be worth $"
+ total;
}

function calculateTotalCompoundInvestment(principal, rate, years, timesCompound){
    var total = +principal * Math.pow(1+rate/100/timesCompound,timesCompound*years);
    return total;
}

function myOtherFunction() {
    do{
        var goal = prompt("Enter the goal.","1938.84");
    } while (isNaN(goal));
    do{
        var rate = prompt("Enter the rate \(1-100 range\).","43");
    } while (isNaN(rate) || ((rate%1)!=0));
    rate=rate/10;
    do{
        var years = prompt("Enter the number of years.","6");
    }while (isNaN(years));
    do{
        var timesCompound = prompt("Enter the number of times the interest is
compounded per year.","4");
    } while (isNaN(timesCompound));

    total = calculateInitialAmountToInvest(goal, rate, years, timesCompound);
```

```
    total = total.toFixed(2);

    document.getElementById("main").innerHTML = "The goal of $" + goal + " can be
achieved in " + years + " years, with a rate of " + rate + "% and compounded " +
timesCompound + " times, with an initial investment of $" + total;
}

function calculateInitialAmountToInvest(goal, rate, years, timesCompound){
    var total = goal / Math.pow(1+rate/100/timesCompound,timesCompound*years);
    return total;
}
```

14.taxCalculator

```
<html>
   <head>
      <title>Tax Calculator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="14.taxCalculator.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var amount;
    do{
        amount = window.prompt("What is the order amount?", "10");
    } while(isNaN(amount));
    var state;
    do{
        state = window.prompt("What is the state?","wiSConSiN");
    } while(!isNaN(state));
    var taxRate = 0.055;

    var tax = +taxRate * amount;
    tax = tax.toFixed(2)/1;
    var total = +amount + tax;

    if(state.toLowerCase()==="wi"||state.toLowerCase()==="wisconsin"){
        ocument.getElementById("main").innerHTML = "The subtotal is $" + amount +
"<br/>The tax is $" + tax + "<br/> The total is $" + total;
    }
    if(state.toLowerCase()==="mn"||state.toLowerCase()==="minnesota"){
        document.getElementById("main").innerHTML = "The subtotal is $" + amount;
    }
}
```

15.Password Validation

```
<html>
   <head>
      <title>Password Validation</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="15.passwordValidation.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <form>
        <input name="myUsername" id="myUsername" type="text">
        <input name="myPassword" id="myPassword" type="password">
        </form>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var map = {
        'Mishu': "abc$123",
        'Richard': "p13dp1p3r"
    }

    var username;
    username = document.getElementById("myUsername").value;
    var password;
    password = document.getElementById("myPassword").value;

    if(map[username]===password){
        document.getElementById("main").innerHTML = "Hello!";
    } else {
        document.getElementById("main").innerHTML = "I don't know you!";
    }

}
```

16.LegalDriving Age

```
<html>
   <head>
      <title>Legal Driving Age</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="16.legalDrivingAge.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <input name="age" id="age" type="text" placeholder="Age" value="16">
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var myMap = {
        'Romania':18,
        'USA':16,
        'China':20,
        'Africa':15
    }

    var age;
    age = document.getElementById("age").value;
    if(isNaN(age)||age<0){
        alert("Please enter a valid age!");
        return;
    }

    document.getElementById("main").innerHTML = "You can legally drive in the
following countries: <br/>";
    for (var key in myMap){
        if(myMap[key]<=age){
            document.getElementById("main").innerHTML += key + "<br/>";
        }
    }
}
```

17.Bood Alchool Calculator

```
<html>
    <head>
        <title>Blood Alcohol Calculator</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="17.bloodAlcoholCalculator.js"></script>
    </head>

    <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var weight;
    do{
        weight = prompt("What is your weight?", "80");
    } while(isNaN(weight));
    var gender;
    do{
        gender = prompt("What is your gender? (m/f)","m");
    } while(gender!=="m"&&gender!=="f");
    var nrDrinks;
    do{
        nrDrinks = prompt("How many drinks did you have?","4");
    } while(isNaN(nrDrinks));
    var alcoholPerDrink;
    do{
        alcoholPerDrink = prompt("How many ounces of alcohol do the consumed drinks
have?","0.6")
    } while(isNaN(alcoholPerDrink));
    do{
        hoursSinceLastDrink = prompt("How many hours since your last drink?","2");
    } while(isNaN(hoursSinceLastDrink));
```

```
    var totalAlcoholConsumed = alcoholPerDrink * nrDrinks;
    var BAC = calculateBAC(totalAlcoholConsumed,weight,gender,hoursSinceLastDrink);
    BAC = BAC.toFixed(3);

    if(BAC>0.08){
        document.getElementById("main").innerHTML = "Your BAC is " + BAC + "<br/>It is
NOT legal for you to drive.";
    } else document.getElementById("main").innerHTML = "Your BAC is "+ BAC + "<br/>It
is legal for you to drive.";

}

function calculateBAC(A,W,g,H){
    var r;
    if(g==="f"){
        r=0.66;
    } else r=0.73;
    var BAC=(A*5.14/W*r)-0.015*H;
    return BAC;
}
```

18. Temperature Convert

```
<html>
   <head>
      <title>Temperature Converter</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="18.temperatureConverter.js"></script>
   </head>

   <body onload="loadOptions()">
        <select id="optionsList">
        </select>
        <input id="value" type="number" onchange="convert()">
        <input id="result" type="number" readonly="true">

   </body>
</html>
```

```
function loadOptions(){
     var scales = {
        'C':'Celsius',
        'F':'Fahrenheit',
        'K':'Kelvin'
    }
    var select = document.getElementById('optionsList');
    var option;
    for(var key1 in scales){
        for(var key2 in scales){
            if(key1!==key2){
                option = document.createElement('option');
                option.innerHTML = scales[key1] + " to " + scales[key2];
                option.value= key1+key2;
                select.appendChild(option);
            }
        }
    }
}
```

```
function convert(){
    var scale1 = document.getElementById("optionsList").value[0];
    var scale2 = document.getElementById("optionsList").value[1];
    var value = document.getElementById("value").value;
    var convertedValue;

    switch(scale1+scale2){
        case 'CF':
            convertedValue = (value*9/5)+32;
            break;
        case 'CK':
            convertedValue = value+273.15;
            break;
        case 'FC':
            convertedValue = (value-32)*5/9;
            break;
        case 'FK':
            convertedValue = (value + 459.67)*5/9;
            break;
        case 'KC':
            convertedValue = value - 273.15;
            break;
        case 'KF':
            convertedValue = value * 9/5 - 459.67;
            break;
        default:
            convertedValue = null;
            break;
                        }
    convertedValue = convertedValue.toFixed(1);

    document.getElementById("result").value = convertedValue;

}
```

19.BMI Calculator

```
<html>
   <head>
      <title>BMI Calculator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="19.bmiCalculator.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var weigth;
    do{
        weigth = prompt("What is your weigth",150);
    } while(isNaN(weigth));
    var height;
    do{
        height = prompt("What is your height",72);
    } while(isNaN(height));
```

```
    var bmi = calculateBMI(weigth,height);
    bmi=bmi.toFixed(2);
    document.getElementById("main").innerHTML = "Your BMI is " + bmi;
    if(bmi>25){
        document.getElementById("main").innerHTML += "<br/>You are overweigth. You
should see a doctor.";
    } else if (bmi<18.5){
        document.getElementById("main").innerHTML += "<br/>You are underweigth. You
should see a doctor.";
    } else document.getElementById("main").innerHTML += "<br/> You are within the
ideal weigth range.";
}

function calculateBMI(weight,height){
    return (weight/(height*height))*703;
}
```

20.MultiState Sales tax Calculator

```
<html>
   <head>
      <title>Multistate Sales Tax Calculator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="20.multistateSalesTaxCalculator.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var tax;
    var total;
    var amount;
    do{
        amount = prompt("What is the order amount?","10");
    } while(isNaN(amount));
    tax=0.05*amount;
    var state;
    state = prompt("What state do you live in?","Wisconsin");

    if(state.toLowerCase()==="wisconsin"||state.toLowerCase()==="wi"){
        var county;
        county = prompt("What county do you live in?","Eau Claire");
        switch(county.toLowerCase()){
            case "eau claire":
                tax+=0.005*amount;
                break;
            case "dunn":
                tax+=0.004*amount;
                break;
            default:
                console.log("Error!");
                break;
        }
    } else if(state.toLowerCase()==="illinois"||state.toLowerCase()==="il"){
        tax=0.08*amount;
    }
```

```
    total = +amount + +tax;
    total = total.toFixed(2);
    document.getElementById("main").innerHTML="The tax is "+tax+"<br/>The total is
"+total;
}
```

21.Number to Names

```
<html>
   <head>
      <title>Number to Names</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="21.numberToNames.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var number;
    var month;
    var monthMap = {
        1:'january',
        2:'february',
        3:'march',
        4:'april',
        5:'may',
        6:'june',
        7:'july',
        8:'august',
        9:'september',
        10:'october',
        11:'november',
        12:'december'
    }
    do{
        number=prompt("What is the number of the month?","3");
    } while(isNaN(number));
    document.getElementById("main").innerHTML = "The name of the month is " +
monthMap[number] + ".";
}
```

22. Comparing Number

```
<html>
   <head>
      <title>Comparing Numbers</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="22.comparingNumber.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
```

```
        <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
var numberArray = [];

function myFunction(){
    var number;
    for(var i=0;i<5;i++){
        do{
            number=prompt("What is the value of number " + (i+1),"1");
        } while (isNaN(number)||(nrExists(number)))
        numberArray[i]=number;
    }
    var largestNumber = findLargest(numberArray);
    document.getElementById("main").innerHTML = "The largest number is " +
largestNumber + ".";
}

function nrExists(number){
    for(var i=0;i<numberArray.length;i++){
        if(numberArray[i]===number){
            return true;
        }
    }
    return false;
}

function findLargest(numberArray){
    var max=numberArray[0];
    for(var i=1;i<numberArray.length;i++){
        console.log("comparing "+numberArray[i]+" to "+max);
        if(+numberArray[i]>+max){
            max=numberArray[i];
            console.log("found max: "+max);
        }
    }
    return max;
}
```

23.TroubleShooting Carlssue

```
<html>
    <head>
        <title>Troubleshooting Car Issues</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
        <script src="23.troubleshootingCarIssues.js"></script>
    </head>

    <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
    </body>
</html>
```

```
function myFunction(){
    var response;
    do{
        response=prompt("Is the car silent when you turn the key?","y");
    } while(response!=="y"&&response!=="n");
    if(response==="y"){
```

```
        do{
            response=prompt("Are the battery terminals corroded?","y");
        } while(response!=="y"&&response!=="n");
        if(response==="y"){
            document.getElementById("main").innerHTML = "Clean terminals and try
starting again.";
        } else {
            document.getElementById("main").innerHTML = "Replace cables and try
again.";
        }
    } else {
        do{
            response=prompt("Does the car make a clicking noise?","y");
        } while(response!=="y"&&response!=="n");
        if(response==="y"){
            document.getElementById("main").innerHTML = "Replace the batteries.";
        } else {
            do{
                response=prompt("Does the car crank up but fail to start?");
            }while(response!=="y"&&response!=="n");
            if(response==="y"){
                document.getElementById("main").innerHTML="Check spark plug
connections.";
            } else {
                do{
                    response=prompt("Does the engine start and the die?","y")
                } while(response!=="y"&&response!=="n");
                if(response==="n"){
                    document.getElementById("main").innerHTML="Get it in for
service.";
                } else {
                    do{
                        response=prompt("Does your car have fuel injection?");
                    } while(response!=="y"&&response!=="n");
                    if(response==="y"){
                        document.getElementById("main").innerHTML = "Check to ensure
the choke is opening and closing.";
                    } else document.getElementById("main").innerHTML="Get it in for
service.";
                }
            }
        }
    }
}
```

24.AnaGramChecker

```
<html>
   <head>
      <title>Anagram checker</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="24.anagramChecker.js"></script>
   </head>

   <body>
        <p id="main">Text will appear here.</p>
        <button onclick="myFunction()">Click me</button>
   </body>
</html>
```

```
function myFunction(){
    var string1;
    string1 = prompt("Enter the first string:","note");
    var string2;
    string2 = prompt("Enter the second string:","tone");
    string1 = string1.toLowerCase();
    string2 = string2.toLowerCase();
    if(isAnagram(string1,string2)){
        document.getElementById("main").innerHTML = "The strings are anagrams.";
    } else document.getElementById("main").innerHTML = "The strings are NOT
anagrams.";
}


function isAnagram(string1,string2){
    var i,j;
    var found;

    string1 =removeSpecialChars(string1);
    string2 = removeSpecialChars(string2);

    for(i=0;i<string1.length;i++){
        found=false;
        for(j=0;j<string2.length;j++){
            console.log("comparing " + string1[i] + " to " + string2[j]);
            if(string1[i]==string2[j]&&found==false){
                console.log("found 2 matching letters, removing " + string1[i]);
                string2 = string2.replace(string2[j],"");
                console.log("string 1 is equal to " + string1);
                console.log("string 2 is equal to " + string2);
                found=true;
                break;
            }
        }
        if(found==false){
            console.log("returning false");
            return false;
        }
    }
    if(string2.length===0){
        console.log("returning true");
        return true;
    } else {
        console.log("returning false");
        return false;
    }
}

function removeSpecialChars(string){
    return string.replace(/[^a-zA-Z0-9]/g,"")
}
```

25.Password Strengh Indicator

```
<html>
   <head>
      <title>Password Strength Indicator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="25.passwordStrengthIndicator.js"></script>
```

```
    </head>

    <body>
        <p id="main">Enter a password to validate it.</p>
        <input id="password" type="text" onchange="myFunction()">
    </body>
</html>
```

```
function myFunction(){
    var password = document.getElementById("password").value;
    var passwordLevel = validatePassword(password);
    passwordLevel = levelToString(passwordLevel);
    document.getElementById("main").innerHTML = "The password " + password + " is a "
+ passwordLevel + " password.";
}

function validatePassword(password){
    var cNumbers=0;
    var cChars=0;
    var cSpecial=0;
    var letter = /^[a-zA-Z]/;
    var number = /^[0-9]/;
    for(var i=0;i<password.length;i++){
        if(password[i].match(letter)){
            cChars++;
        } else if (password[i].match(number)){
            cNumbers++;
        } else {
            cSpecial++;
        }
    }
    if(cChars!==0&&cNumbers!==0&&cSpecial!==0&&password.length>=8){
        return 4;
    } else if(cChars!==0&&cNumbers!==0&&password.length>=8){
        return 3;
    } else if(cNumbers===0&&cSpecial===0&&password.length<8){
        return 2;
    } else if(cChars===0&&cSpecial===0&&password.length<8){
        return 1;
    }
}

function levelToString(passwordLevel){
    switch(passwordLevel){
        case 1:
            return 'very weak';
            break;
        case 2:
            return 'weak';
            break;
        case 3:
            return 'strong';
            break;
        case 4:
            return 'very strong';
            break;
        default:
            return '\"pdf didn\'t include this\"';
            break;
                    }
}
```

26. Months To PayCredit

```
<html>
   <head>
      <title>Months to pay credit card</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="26.monthsToPayCreditCard.js"></script>
   </head>

   <body>
        <form>
            <input id="r1" type="radio" name="monthsOrAmount" value="months"
checked="true">Find out number of months<br>
            <input id="r2" type="radio" name="monthsOrAmount" value="amount">Find out
the amount to be payed per month<br>
        </form>
        <button onclick="myFunction()">Click me</button>
        <p id="main"></p>
   </body>
</html>
```

```
function myFunction(){
    var balance;
    do{
        balance = prompt("What is your balance?","5000");
    } while(isNaN(balance));
    var APR;
    do{
        APR=prompt("What is the APR on the card (as a percent)?","12");
    } while(isNaN(APR)&&APR<1);
    APR=APR/36500;
    var numberOfMonths;
    var monthlyPayment;
    if(document.getElementById("r1").checked){
        do{
            monthlyPayment=prompt("What is the monthly payment you can make?","100");
        } while(isNaN(monthlyPayment));
        numberOfMonths = calculateMonthsUntilPaidOff(APR,balance,monthlyPayment);
        document.getElementById("main").innerHTML="It will take you " + numberOfMonths
+ " months to pay off this card.";
    } else if(document.getElementById("r2").checked){
        do{
            numberOfMonths=prompt("What is the number of months you want to keep
paying?","70");
        } while(isNaN(numberOfMonths));
        monthlyPayment = calculateAmountToPayPerMonth(APR,balance,numberOfMonths);
        document.getElementById("main").innerHTML="You will have to pay $" +
monthlyPayment + " each month.";
    }
}

function calculateMonthsUntilPaidOff(dailyRate,balance,monthlyPayment){
    return Math.ceil((-1)/30*(Math.log(1+balance/monthlyPayment*(1-
Math.pow(1+dailyRate,30)))/Math.log(1+dailyRate)));
}

function calculateAmountToPayPerMonth(dailyRate,balance,months){
    var monthlyPayment = (balance*(1-
Math.pow(1+dailyRate,30)))/(Math.pow(1/10,30*Math.log(1+dailyRate)*months)-1);
    monthlyPayment = monthlyPayment.toFixed(2);
    return monthlyPayment;
}
```

27.Validating Inputs

```
<html>
   <head>
      <title>Validating Inputs</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="27.validatingInputs.js"></script>
   </head>

   <body>
        First name:<input type="text"  id="fname" onblur="myFunction()">
        <br>
        Last name:<input type="text"  id="lname" onblur="myFunction()">
        <br>
        ZIP code:<input type="text" id="zip" onblur="myFunction()">
        <br>
        Employee ID:<input type="text" id="emplid" onblur="myFunction()">
        <br>
        <p id="main"></p>
   </body>
</html>
```

```
function myFunction(){
    var fname = readInput("fname");
    var lname = readInput("lname");
    var zip = readInput("zip");
    var emplid = readInput("emplid");
    clear();
    if(validateInput(fname,lname,zip,emplid)){
        write("<br/>There were no errors found.");
    }
}

function isLetter(char){
    return 'abcdefghijklmnopqrstuvwxyz'.indexOf(char.toLowerCase()) >=0;
}

function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function readInput(element){
    return document.getElementById(element).value;
}

function validateInput(fname,lname,zip,emplid){
    var returnValue=true;

    if(fname===""){
        write("<br/>The first name must be filled in.");
        returnValue=false;
    }else if(fname.length<2){
        write("<br/>\""+fname+"\" is not a valid first name. It is too short.");
        returnValue=false;
    }

    if(lname===""){
        write("<br/>The last name must be filled in.");
        returnValue=false;
    }else if(lname.length<2){
        write("<br/>\""+lname+"\" is not a valid last name. It is too short.");
        returnValue=false;
    }
```

```
    if(zip.length>0&&zip.length<3){
        write("<br/>Zip code must be at least 3 characters long.");
        returnValue=false;
    } else if (zip.length>6){
        write("<br/>Zip code must be at most 6 characters long.");
        returnValue=false;
    }
    else {
        for(var i=0;i<zip.length;i++){
            if(!isDigit(zip[i])){
                write("<br/>Zip code must contain only numbers.");
                returnValue=false;
            }
        }
    }

    if(emplid.length>0&&emplid.length!=6){
        write("<br/>Employee ID must be 6 characters long.");
        returnValue=false;
    } else if (!isLetter(emplid[0]) || !isLetter(emplid[1]) || emplid[2]!=="-" ||
!isDigit(emplid[3]) || !isDigit(emplid[4]) || !isDigit(emplid[5])){
        write("<br/>\"" + emplid + "\" is not a valid employee ID format. Format is
\"AA-123\".");
        returnValue=false;
    }

    return returnValue;
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}
```

28.AddingNumbers

```
<html>
   <head>
      <title>Adding Numbers</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="28.addingNumbers.js"></script>
   </head>

   <body>
        <button onclick="myFunction()">Click me</button>
        <p id="main"></p>
   </body>
</html>
```

```
function myFunction(){
    var sum=0;
    var times;
    var n;
    do{
        times = prompt("How many numbers do you want to add?","5");
    } while(isNaN(times));
```

```
    for(var i=0;i<times;i++){
        n=prompt("Enter a number",i+1);
        if(isDigit(n)){
            sum+=+n;
        }
    }
    write("The sum is " + sum);
}

function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function write(string){
    document.getElementById("main").innerHTML = string;
}
```

29.Bad Input

```
<html>
   <head>
      <title>Bad Input</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="29.badInput.js"></script>
   </head>

   <body>
        <button onclick="myFunction()">Click me</button>
        <p id="main"></p>
   </body>
</html>
```

```
function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function isLetter(char){
    return 'abcdefghijklmnopqrstuvwxyz'.indexOf(char.toLowerCase()) >=0;
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function myFunction(){
    clear();
    var r;
    do{
        r=prompt("What is the rate of return?","0");
        if(isNaN(r)){
            alert("Input must be a number.");
        } else if (r=='0'){
            alert("Input can't be 0.");
        }
    } while(isNaN(r)||r=='0');
```

```
    var years = 72/r;
    write("It will take " + years + " years to double your initial investment.");
}
```

30.Multiplication Table

```
<html>
   <head>
      <title>Multiplcation Table</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="30.multiplicationTable.js"></script>
   </head>

   <body>
        <button onclick="myFunction()">Click me</button>
        <p id="main"></p>
   </body>
</html>
```

```
function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function isLetter(char){
    return 'abcdefghijklmnopqrstuvwxyz'.indexOf(char.toLowerCase()) >=0;
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function myFunction(){
    clear();
    var numbers = [0,1,2,3,4,5,6,7,8,9,10,11,12];
    write("//\t");
    for(var k=0;k<numbers.length;k++){
        write(numbers[k]+"\t");
    }
    write("<br/>");
    for(var i=0;i<numbers.length;i++){
        write(numbers[i]+"\t");
        for(var j=0;j<numbers.length;j++){
            write(numbers[i]*numbers[j]);
            write("\t");
        }
        write("<br/>");
    }
}
```

31.Heart Rate

```
<html>
    <head>
        <title>Multiplcation Table</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="initial-scale=1.0">
          <script src="31.heartRate.js"></script>
    </head>

    <body onload="updateSlider()">
          Resting pulse:<input id="restingPulse" type="number">
          <br>
          Age:<input id="age" type="number">
          <br>
          Intensity: 55%
          <input id="intensity" type="range" min="55" max="95" step="5" oninput
="myFunction()" > 95%
          <input id="sliderValue" readonly="true">
          <p id="main"></p>
    </body>
</html>
```

```
function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function isLetter(char){
    return 'abcdefghijklmnopqrstuvwxyz'.indexOf(char.toLowerCase()) >=0;
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function myFunction(){
    clear();
    document.getElementById("sliderValue").value =
document.getElementById("intensity").value+"%";

    var restingPulse = document.getElementById("restingPulse").value;
    var age=document.getElementById("age").value;
    var intensity=document.getElementById("intensity").value/100;

    var heartRate = Math.floor(((220-age)-restingPulse)*intensity)+(+restingPulse);
    if(restingPulse!==""&&age!==""){
        write("Your hart rate is " + heartRate);
    } else write("Enter values")
}
```

32. Guess Number

```
<html>
   <head>
      <title>Multiplcation Table</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="32.guessNumber.js"></script>
   </head>

   <body>
        <button onclick="myFunction()">Start game</button>
        <p id="main"></p>
   </body>
</html>
```

```
function isDigit(char){
    return '0123456789'.indexOf(char.toLowerCase()) >=0;
}

function isLetter(char){
    return 'abcdefghijklmnopqrstuvwxyz'.indexOf(char.toLowerCase()) >=0;
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function myFunction(){
    var difficulty;
    var randomNumber;
    var input;
    var inputs = [];
    var guesses=0;
    var again;
    var praise;

    do{
        do{
            difficulty = prompt("Pick a difficulty level (1, 2 or 3)","1");
        } while(isNaN(difficulty)||difficulty<1||difficulty>3);
        randomNumber = getRandom(difficulty);

        guesses=0;
        inputs = [];

        input = prompt("I have my number. What's your guess?","1");
        guesses++;
        inputs.push(input);

        while(input!=randomNumber){
            if(input<randomNumber){
                input = prompt("Too low. Guess again:","5");
                if(inputs.indexOf(input)>-1){
                    alert("Number was already entered!");
                }
                guesses++;
                inputs.push(input);
            } else {
                input = prompt("Too high. Guess again:","2");
```

```
                if(inputs.indexOf(input)>-1){
                    alert("Number was already entered!");
                }
                guesses++;
                inputs.push(input);
            }
        }
        praise = generatePraise(guesses);
        alert("You got it in " + guesses + " guesses! " + praise);
        do{
            again = prompt("Play again? (y/n)","n");
        } while(again!=='y'&&again!=='n');
    } while(again==="y");
    document.getElementById("main").innerHTML = "History:" + inputs;
}

function getRandom(difficulty){
    if(difficulty==='1'){
        return Math.floor(Math.random() * (10 - 1 + 1)) + 1;
    } else if(difficulty==='2'){
        return Math.floor(Math.random() * (100 - 1 + 1)) + 1;
    } else if(difficulty==='3'){
        return Math.floor(Math.random() * (1000 - 1 + 1)) + 1;
    } else return false;
}

function generatePraise(guesses){
    if(guesses==1){
        return "You're a mind reader! ";
    } else if (guesses>=2&&guesses<=3){
        return "Most impressive. ";
    } else if (guesses>=4&&guesses<=6){
        return "You can do better than that. ";
    } else if (guesses>=7){
        return "Better luck next time. ";
    }
}
```

33.Magic Ball

```
<html>
   <head>
      <title>Magic 8 Ball</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="33.magic8Ball.js"></script>
   </head>

   <body>
        <button onclick="myFunction()">Start game</button>
        <p id="main"></p>
   </body>
</html>
```

```
function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
```

```
}

function generateRandomBetween(min,max){
    return Math.floor(Math.random() * (max - min + 1)) + min;
}

function myFunction(){
    clear();
    var question = prompt("What's your question?","Will i be rich and famous?");
    var randomNumber = generateRandomBetween(1,4);
    switch(randomNumber){
        case 1:
            write("Yes");
            break;
        case 2:
            write("No");
            break;
        case 3:
            write("Maybe");
            break;
        case 4:
            write("Ask again later");
            break;
        default:
            write("Error");
            break;
                    }
}
```

34. Employee List Removal

```
<html>
   <head>
      <title>Employee List Removal</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="34.employeeListRemoval.js"></script>
   </head>

   <body onload="showEmployees()">
        <p id="main"></p>
        <button onclick="myFunction()">Delete Employee</button>
   </body>
</html>
```

```
var employees = ["Adrian Arby","Bob Bean","Carl Marc's","Daniel"];

function myFunction(){
    var employee = prompt("Write employee name:","Daniel");
    removeEmployee(employee);
    clear();
    showEmployees();
}

function showEmployees(){
    for(var i=0;i<employees.length;i++){
        write((i+1)+": "+employees[i]+"<br>");
    }
}

function removeEmployee(employee){
```

```
    var index;
    for(var i=1;i<employees.length;i++){
        if(employee.toLowerCase()==employees[i].toLowerCase()){
            index=i;
        }
    }
    if(index>-1){
        employees.splice(index,1);
    } else {
        alert("Employee does not exist.");
    }
}

function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}
```

35.PikingWinner

```
<html>
   <head>
      <title>Picking a Winner</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="35.pickingWinner.js"></script>
   </head>

   <body>
        <p id="main">Enter a blank name to stop.</p>
        <button onclick="myFunction()">Enter names</button>
   </body>
</html>
```

```
function write(string){
    document.getElementById("main").innerHTML += string;
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function generateRandomBetween(min,max){
    return Math.floor(Math.random() * (max - min + 1)) + min;
}

function myFunction(){
    var names = [];
    var name;
    do{
        name = prompt("Enter a name:");
        if(name!==""){
            names.push(name);
        }
    } while(name!=="");
```

```
    var winner = generateRandomBetween(0,names.length-1);
    showNames(names);
    console.log(winner);
    clear();
    write("The winner is... " + names[winner]);
}

function showNames(names){
    for(var i=0;i<names.length;i++){
        console.log(names[i]);
    }
}
```

36.Computing Statistics

```
<html>
   <head>
      <title>Computing Statistics</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="36.computingStatistics.js"></script>
   </head>

   <body>
        <p id="main">Enter "done" to stop.</p>
        <button onclick="myFunction()">Enter numbers</button>
   </body>
</html>
```

```
function myFunction(){
    var numbers = [];
    var number;

    do{
        number = prompt("Enter a number:","100");
        if(!isNaN(number)){
            numbers.push(number);
        } else if(number==="done"){
            alert("Stopped entering values.");
        } else {
            alert("You entered a non-numeric value.");
        }
    } while (number!=="done");
    clear();
    write("Numbers are: " + numbers);
    var mean, max, min, stdv;
    mean=getMean(numbers).toFixed(2);
    write("<br>The mean is: " + mean);
    min=getMin(numbers);
    write("<br>The minimum is: " + min);
    max=getMax(numbers);
    write("<br>The maximum is: " + max);
    stdv=getSTDEV(numbers);
    write("<br>The standard deviation is: " + stdv);

}

function write(string){
    document.getElementById("main").innerHTML += string;
}
```

```
function clear(){
    document.getElementById("main").innerHTML = "";
}

function getMin(numbers){
    var min = numbers[0];
    for(var i=1;i<numbers.length;i++){
        if(numbers[i]<min){
            min = numbers[i];
        }
    }
    return min;
}

function getMax(numbers){
    var max = numbers[0];
    for(var i=1;i<numbers.length;i++){
        if(numbers[i]>max){
            max = numbers[i];
        }
    }
    return max;
}

function getMean(numbers){
    var sum=0;
    for(var i=0;i<numbers.length;i++){
        sum+=+numbers[i];
    }
    return sum/numbers.length;
}

function getSTDEV(numbers){
    var sqrdValues = [];
    var sqrdValue;
    var mean = getMean(numbers);
    for(var i=0;i<numbers.length;i++){
        sqrdValue = Math.pow(numbers[i]-mean,2);
        sqrdValues.push(sqrdValue);
    }
    return Math.sqrt(getMean(sqrdValues));
}
```

37.PasswordGenerator

```
<html>
   <head>
      <title>Password Generator</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="initial-scale=1.0">
        <script src="37.passwordGenerator.js"></script>
   </head>

   <body>
        <p id="main"></p>
        <button onclick="myFunction()">Generate Password</button>
   </body>
</html>
```

```
function write(string){
    document.getElementById("main").innerHTML += string;
```

```
}

function clear(){
    document.getElementById("main").innerHTML = "";
}

function myFunction(){
    var minLength;
    do{
        minLength = prompt("What's the minimum length?","8");
    } while(isNaN(minLength));
    var nrSpecialChars;
    do{
        nrSpecialChars = prompt("How many special characters?","2");
    } while(isNaN(nrSpecialChars));
    var nrDigits;
    do{
        nrDigits = prompt("How many numbers?","2");
    } while(isNaN(nrDigits));
    var nrLetters = minLength-nrSpecialChars-nrDigits;

    var thePass;
    thePass = generatePassword(nrSpecialChars,nrDigits,nrLetters);
    write(thePass+"<br>");
}

function generatePassword(nrSpecialChars,nrDigits,nrLetters){
    var thePass="";
    var letters='abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';
    var digits='0123456789';
    var specialChars="!\"#$%&'()*+,-./:;<=>?@[\]^_`{|}~";
    var i;
    for(i=0;i<nrLetters;i++){
        thePass+=letters.charAt(Math.floor(Math.random()*letters.length));
    }
    for(i=0;i<nrDigits;i++){
        thePass+=digits.charAt(Math.floor(Math.random()*digits.length));
    }
    for(i=0;i<nrSpecialChars;i++){
        thePass+=specialChars.charAt(Math.floor(Math.random()*specialChars.length));
    }
    thePass = randomizePassword(thePass);
    return thePass;
}

function randomizePassword(thePass){
    thePass=thePass.split('');
    for(var i=0;i<thePass.length;i++){
        var random = generateRandomBetween(0,thePass.length-1);
        var temp = thePass[i];
        thePass[i]=thePass[random];
        thePass[random]=temp;
    }
    return thePass.join('');
}

function generateRandomBetween(min,max){
    return Math.floor(Math.random() * (max - min + 1)) + min;
}
```