Mattia Danese CS20 - Web Programming Professor DiOrio Assignment 5: Lottery Sim

Online Link

https://mattia-danese.github.io/CS20-hw5/

```
HTML Code
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   <title>Lottery Sim</title>
   <link rel = "stylesheet" href = "./style.css" />
   <style></style>
   <script src="./script.js"></script>
</head>
<body>
   <h1>Lottery Sim</h1>
   <button onclick="game();">Click to Play!</button>
   <h2 id="load">Picking Your Numbers</h2>
   <div id="container">
       <hr>>
       <div>Your Pick: <span id="pick"></span></div>
       <div>Your Sorted Pick: <span id="pick sorted"></span></div>
       <div>Your Lucky Ball: <span id="lucky_ball"></span></div>
       <hr>>
       <div id="winning nums">
```

```
Javascript Code
function determinePick(){
   pick = [];
   while (pick.length < 5){
       num = Math.floor(Math.random() * 48) + 1; //check this
       if(pick.indexOf(num) == -1){
           pick.push(num);}
   }
   pick_unsorted = [...pick];
   pick.sort(function(a, b){return a - b});
   return pick, pick unsorted;
}
function determineMatches(pick, lucky){
   lucky_match = false;
   winning_nums = [12, 15, 24, 35, 48];
   winning lucky = 3;
   matches = 0;
   for(i = 0; i < 6; i++){
       if(winning nums.indexOf(pick[i]) != -1){
           matches += 1;}}
   if(lucky == winning_lucky){
       lucky_match = true;}
   return matches, lucky match;
}
function determinePayout(matches, lucky match){
   table = [
       "$4",
       "$6",
       "$3",
       "$25",
       "$20",
       "$150",
       "$200",
       "$5,000",
```

```
"$25,000 a YEAR for LIFE",
       "$7,000 a WEEK for LIFE"
   ];
   payout = "";
   if(matches >= 2) {
       if(lucky match == true){
           payout = table[(matches - 1) * 2 + 1];
       }
       else{
           payout = table[(matches - 1) * 2];}
   }
   else {
       if(matches == 0 && lucky_match == true){
           payout = table[0];
       }
       else{
           if(matches == 1 && lucky match == true){
               payout = table[1];
           }
           else {payout = "$0";}
       }
   }
   return payout;
}
function updateDOM(pick, pick_unsorted, lucky, matches, lucky_match,
payout){
   document.getElementById("load").style = "display: none;";
   document.getElementById("load").innerHTML = "Picking Your Numbers";
   document.getElementById("pick").innerHTML = pick unsorted.join(',
');
   document.getElementById("pick_sorted").innerHTML = pick.join(', ');
   document.getElementById("lucky_ball").innerHTML = lucky;
   document.getElementById("matches").innerHTML = matches;
   if(lucky match == true){
       document.getElementById("match lucky").innerHTML = "Yes!";}
```

```
else{
       document.getElementById("match lucky").innerHTML = "No.";}
   document.getElementById("payout").innerHTML = payout;
   document.getElementsByTagName("button")[0].innerHTML = "Click to
Play Again!";
   document.getElementById("container").style = "display: block;";
}
function addDot(){
   document.getElementById("load").innerHTML += ".";
}
function loading(){
   load = document.getElementById("load");
   load.style = "display: block;";
   for(i=0; i < 3; i++){}
       setTimeout(addDot, 500 + (i*2000));
       setTimeout(addDot, 1000 + (i*2000));
       setTimeout(addDot, 1500 + (i*2000));
       if(i != 2){
           setTimeout(function() {load.innerHTML = "Picking Your
Numbers"; \}, 2000 + (i*2000));
       }
   }
}
function game(){
   document.getElementById("container").style = "display: none;";
   pick, pick_unsorted = determinePick();
   lucky = Math.floor(Math.random() * 18) + 1;
   matches, lucky match = determineMatches(pick, lucky);
   payout = determinePayout(matches, lucky match);
```

```
loading();
setTimeout(function() {updateDOM(pick, pick_unsorted, lucky,
matches, lucky_match, payout)}, 6000);
}
```

```
CSS Code
body{
   height: 100vh;
   width: 100vw;
   text-align: center;
   background-color: azure;
   position: relative;
}
#container{
   display: none;
   position: absolute;
   top: 50%;
   left: 50%;
   transform: translate(-50%, -50%);
   text-align: left;
   font-size: larger;
}
#container div{
   margin-bottom: 2%;
}
h1{
   text-decoration: underline;
   color: navy;
   font-size: 10vh;
   margin-bottom: 3.5vh;
}
button{
   font-size: 3vh;
   padding: 15px;
   border-radius: 25px;
   color: white;
  background-color: green;
}
```

```
button:hover{
   cursor: pointer;
   font-size: 3.15vh;
}
.lucky{
   color: green;
  font-weight: bold;
  text-decoration: underline;
}
h2{
   display: none;
   position: absolute;
  top: 35%;
   left: 50%;
  transform: translate(-50%, -50%);
}
```