Name: MD WALID WISE

Id: 1800937

Homework1

1.

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<title>Card Game</title>

<script>

"use strict";

//Function to calculate the sum of players card and the sum of computers cards and calculates the winner//

function Try\_Your\_luck() {

var num1, num2, num3, num4, p, c, winner;

num1 = Math.floor(Math.random() \* 13) + 1;

num2 = Math.floor(Math.random() \* 13) + 1;

num3 = Math.floor(Math.random() \* 13) + 1;

num4 = Math.floor(Math.random() \* 13) + 1;

p = num1 + num2 ;

c = num3 + num4 ;

if (p>21 && c>21){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". It's a tie (because your's sum and the computer's sum are both greater than 21)";

document.getElementById("message").innerHTML=winner ;

}

else if (p==c){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". It's a tie (because your's sum and the computer's sum are both equal.)";

document.getElementById("message").innerHTML=winner ;

}

else if (c>21 && p<=21){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". You win (because computer's sum is over 21).";

document.getElementById("message").innerHTML=winner ;

}

else if (p>21 && c<=21){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". Computer wins (because your's sum is over 21).";

document.getElementById("message").innerHTML=winner ;

}

else if (p<=21 && c<=21 && p>c){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". You win (because both have a sum that is less or equal to 21, and you have the greater sum).";

document.getElementById("message").innerHTML=winner ;

}

else if (p<=21 && c<=21 && c>p){

winner = "Your cards: " + num1 +" and " + num2 + ", sum is " + p +". Computer cards: " + num3 +" and " + num4 + ", sum is " + c + ". Computer wins (because both have a sum that is less or equal to 21, and Computer has the greater sum).";

document.getElementById("message").innerHTML=winner ;

}

else {

winner = "invailed";

document.getElementById("message").innerHTML=winner ;

}

}

</script>

</head>

<body>

<h1>Lucky Cards</h1>

<input type="button" value="Try your Luck" onclick="Try\_Your\_luck()" >

<p>

<p id="message"></p>

</body>

</html>

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