Project #1: Yahtzee!

DUE DATE: Mar 3rd by 12pm

Your objective is to create a JavaScript simulation of a two-player "Rapid" game of Yahtzee using the following rules:

- 1) Each player must have a name
- 2) Each player gets 10 turns
- 3) Each turn includes **5 dice rolled**, but not every die will be used to score each round.
 - a. There will not be a second roll per round like in typical Yahtzee.
- 4) Each **turn score** should be the highest possible score based on the Scoring Chart below.
 - a. Each roll is independent of the previous roll, so duplicate types of scores should be counted
- 5) A player's total score will be cumulative of each round played.
- 6) The winner will be determined by which player has the larger total score at the end of their respective 10 rolls.

SCORING CHART

DISPLAY NAME	DICE COMBO	POINT VALUE
Straight	1,2,3,4,5 or 2, 3, 4, 5, 6	100 Points
YAHTZEE! (5 of a Kind)	All 5 dice are the same	100 Points
4 of a Kind	4 of the 5 dice are the same	75 Points
3 of a Kind	3 of the 5 dice are the same	50 Points
Chance	Total of all dice rolled	Varies

The coding requirements of this project include:

- 1) Must use at least one custom function
- 2) Must use constants to store and display the players' names
- 3) Must use variables and/or arrays to store the dice variables
- 4) Must use Math.random() function to generate the value of each die during each roll
- 5) Must follow the output display (back of the paper) while executing the simulation.
 - a. Anything in bold in output should be replaced by your output variables

Turning in the Assignment:

- 1) You must use Playcode.io as your development environment
- 2) You must save and submit your work via Playcode.io share function
 - a. Name the project: LastName_FirstInitial_Yahtzee
 - b. File menu > Share then copy and paste the Code + Result View URL into the submission Blackboard.
- 3) No other file or submission type will be accepted.

REQUIRED OUTPUT FORMAT:

Today's Yahtzee match-up is: NAME1 vs. NAME2 ==== Round 1 ===== NAME1 rolled: 1, 4, 4, 6, 6 NAME1 scored Chance: 21 points NAME1 current total score: 21 points NAME2 rolled: 3, 3, 3, 2, 2 NAME2 scored Three of a Kind: 75 points NAME2 current total score: 75 points ==== Round 2 ===== **NAME1** rolled: **5**, **5**, **5**, **5**, **5** NAME1 scored YAHTZEE!: 100 points NAME1 current total score: 121 points **NAME2** rolled: **5, 3, 4, 2, 1** NAME2 scored Straight: 100 points NAME2 current total score: 175 points Repeat for 8 more rounds ==== FINAL SCORE ===== NAME1 scored: 675 points NAME2 scored: 775 points **NAME2** is the winner!