## **ISOGRAM**

**Background:** An isogram is a word or sentence that does not contain any repeating letters. The challenge is to write a function that determines if a word or sentence is an isogram.

Challenge: Codewars

Resources: MDN Web Docs, w3 Schools and freeCodeCamp

**Notes**: The code below is intended to be informational and is not meant to be the only way to write this function. In addition to the function below, I employed other functions and methods to apply and test conditions and facilitate user interaction.

```
function isIsogram(str) {
  // convert the str to a lowercased array
  var letters = str.toLowerCase().split(");
  // create an empty array for comparison to letters array
  var newLetters = [];
  // Use ForEach() to iterate over each substring in the letters array and compare
      it to the newLetters array.
  // if the substring does not exist(indexOf -1) in the newLetters array, then add
  letters.forEach(function(item, i, arr) {
    if (newLetters.indexOf(item) === -1) {
      newLetters.push(item);
    }
  });
  // Compare the length the arrays
  if(newLetters.length === letters.length) {
      // If they are strictly equal, then the word IS an isogram, otherwise it is NOT
            // WHY? Substrings that repeat, will not have an index of -1 and not
             be added to newLetters array,
     return true;
  }else {
      return false;
};
//TESTIING THE FUNCTION
console.log(isIsogram("Dermatoglyphics")); //true
console.log(isIsogram("aba")); //false
console.log(isIsogram("moOse")); //false
console.log(isIsogram(" ")); //true
```

console.log(**isIsogram**("FUN% HOME")); //true console.log(**isIsogram**("Reskill Americans")); //false