

**MOBILE APPLICATION DEVELOPMENT**

**THEORY ASSIGNMENT 02**

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**REG. NO:**

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**CLASS:**

**BCS-6B**

**SUBMITTED TO:**

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**Date:**

**26-March-2023**

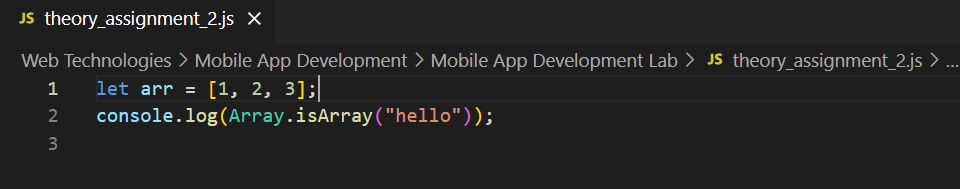
**Array Built in Functions**

Following are the built in functions of an array in JavaScript:

**Array.isArray():**

This function checks if the given value is an array or not.

**Code:**



**Output:**

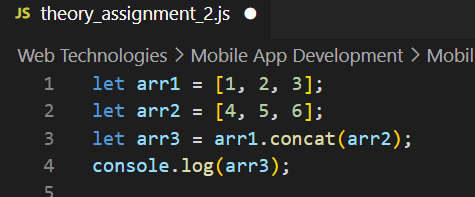
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**Array.prototype.concat():**

This function is used to merge two or more arrays into a single array.

**Code:**

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**Array.prototype.push():**

This function adds one or more elements to the end of an array.

**Code:**

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**Output:**

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**Array.prototype.pop():**

This function removes the last element from an array.

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**Array.prototype.shift():**

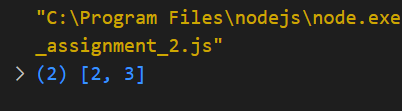
This function removes the first element from an array.

**Code:**

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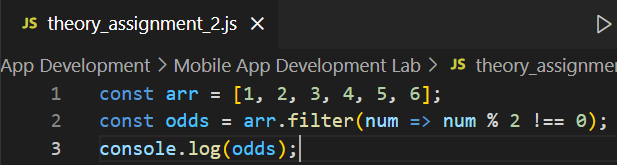
**Output:**

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**Array.prototype.filter():**

Filter() takes a function as an argument and returns a new array with all the elements in the original array that pass a certain condition defined by the function.

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**Output:**

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**Array.prototype.map():**

Map() takes a function as an argument and applies that function to every element in the array, creating a new array with the transformed values.

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**Array.prototype.unshift():**

This function adds one or more elements to the beginning of an array.

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**Array.prototype.splice():**

This function adds or removes elements from an array.

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**Output:**

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**Array.prototype.slice():**

This function returns a new array that contains a portion of an existing array.

**Code:**

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**Array.prototype.reverse():**

This function reverses the order of elements in an array.

**Code:**

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**Output:**

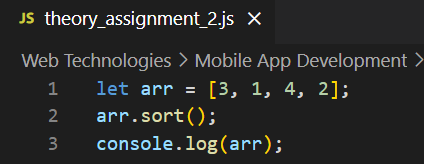
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**Array.prototype.sort():**

This function sorts the elements of an array.

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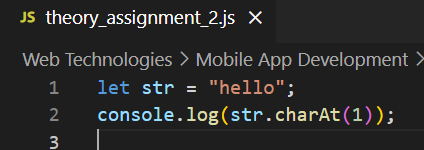
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**STRING FUNCTIONS**

**String.prototype.charAt():**

This function returns the character at a specified index in a string.

**Code:**

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**String.prototype.length:**

This property returns the number of characters in a string.

**Code:**

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**Output:**

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**String.prototype.charAt():**

This function returns the character at a specified index in a string.

**Code:**

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**Output:**

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**String.prototype.indexOf():**

This function returns the index of the first occurrence of a specified value in a string.

**Code:**

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**Output:**

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**String.prototype.lastIndexOf():**

This function returns the index of the last occurrence of a specified value in a string.

**Code:**

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**Output:**

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**String.prototype.slice():**

This function returns a portion of a string.

**Code:**

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**String.prototype.substring():**

This function returns a portion of a string.

**Code:**

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**Output:**

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**String.prototype.replace():**

This function replaces a specified value with another value in a string.

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**String.prototype.toLowerCase():**

This function converts a string to lowercase.

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**String.prototype.toUpperCase():**

This function converts a string to uppercase.

**Code:**

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**Output:**

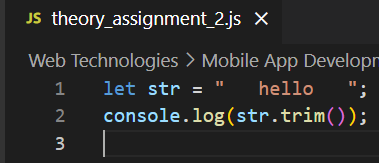
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**String.prototype.trim():**

This function removes whitespace from both ends of a string.

**Code:**

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**Output:**

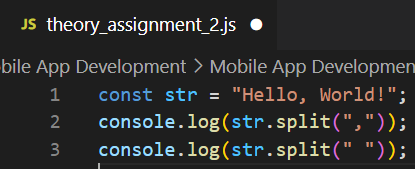
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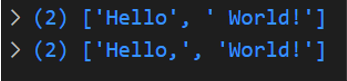
**String.prototype.split():**

Splits a string into an array of substrings based on the specified separator.

**Code:**

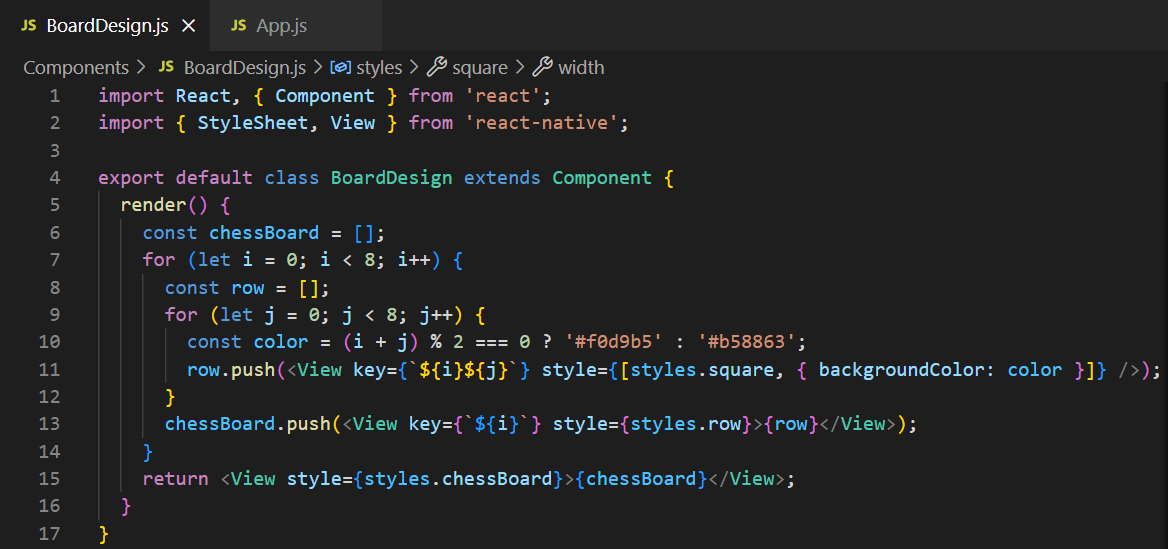
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**Chessboard Design**

**Class Component (BoardDesign.js):**

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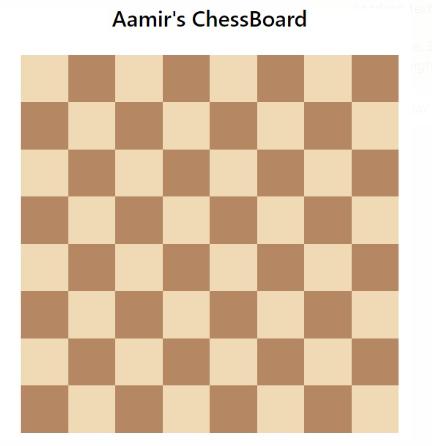
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**App.js:**

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