Name : Naseem HAssan

Reg\_No : Fa20-Bcs-068

**Subject**: MAD Theory

Assignment: 02

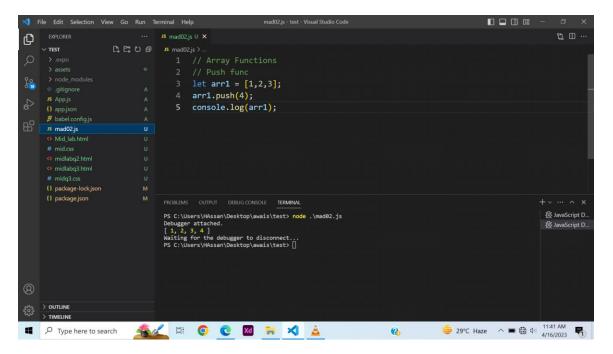
## **Question No: 01**

Array functions in JavaScript with examples.

#### **Answer:**

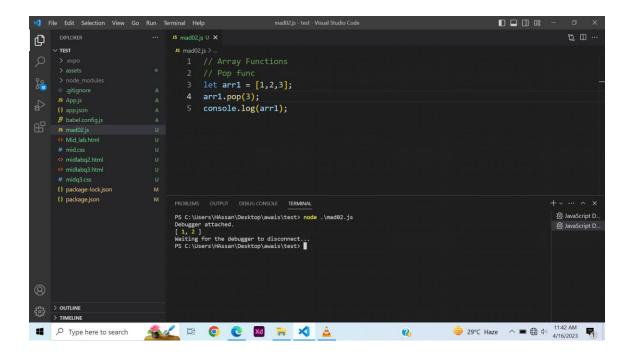
#### push:

This method adds one or more elements to the end of an array and returns the new length of the array.



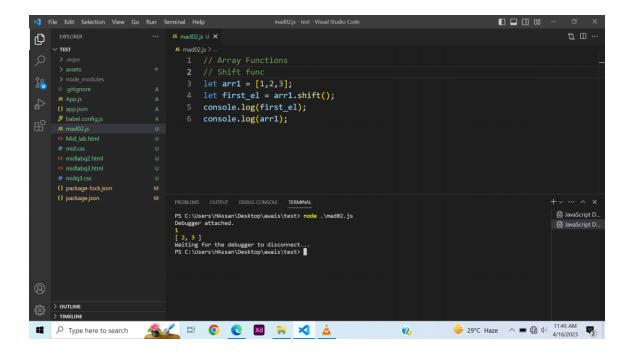
# Pop:

This method removes the last element from an array and returns that element.



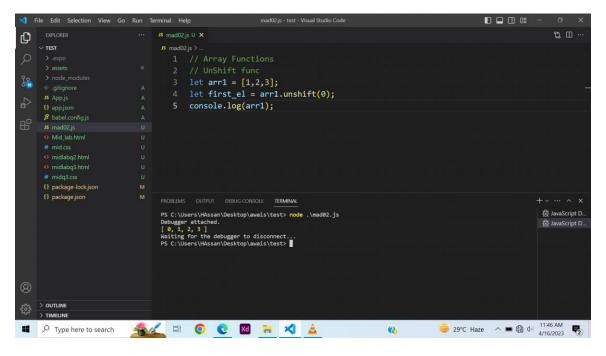
## **Shift:**

This method removes the first element from an array and returns that element.



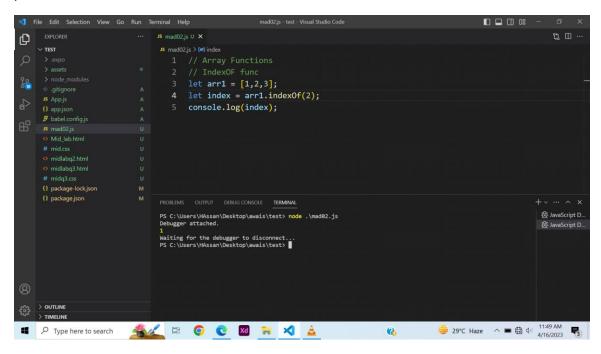
### **UnShift:**

This method adds one or more elements to the beginning of an array and returns the new length of the array.



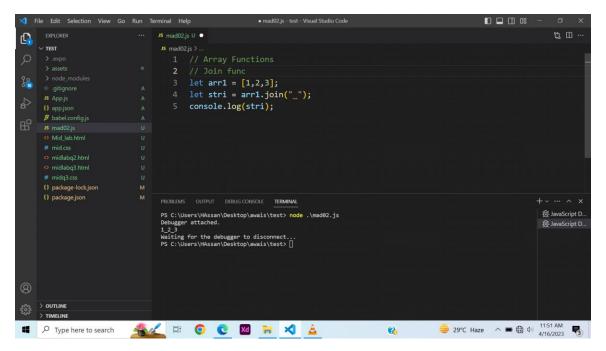
# indexOf:

This method returns the first index at which a given element can be found in an array, or -1 if it is not present.



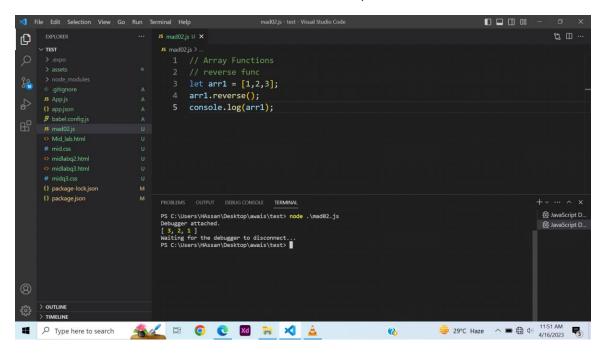
## join:

This method joins all elements of an array into a string.



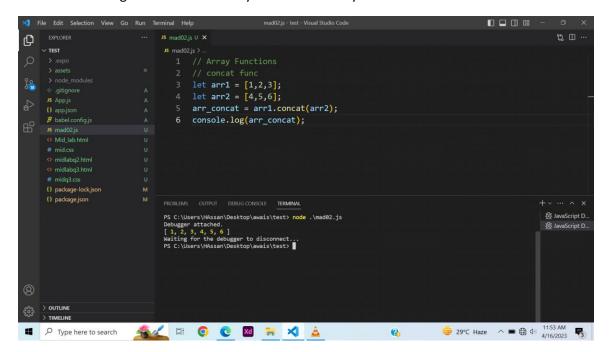
#### reverse:

This method reverses the order of the elements in an array.



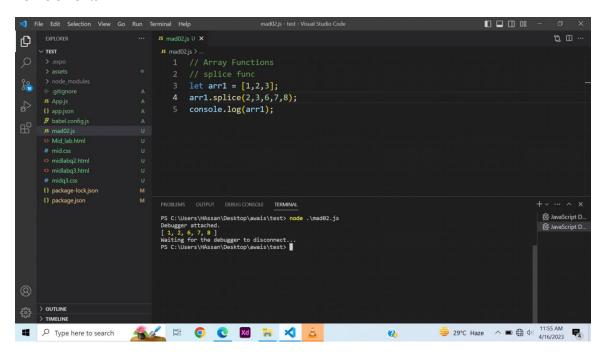
#### concat:

This method merges two or more arrays into a new array.



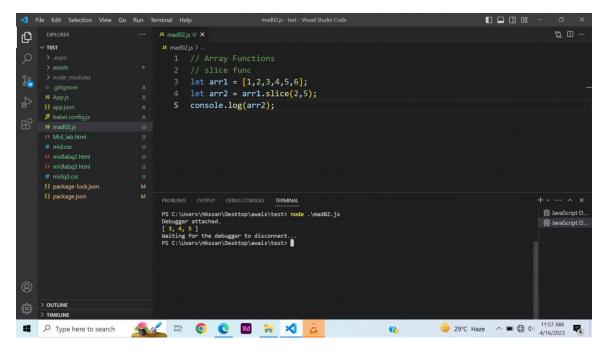
## splice:

This method changes the contents of an array by removing or replacing existing elements and/or adding new elements.



## slice:

This method returns a shallow copy of a portion of an array into a new array.

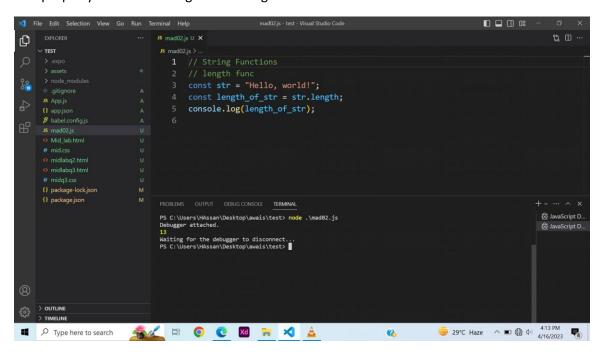


## **Question No: 02**

## **Answer:**

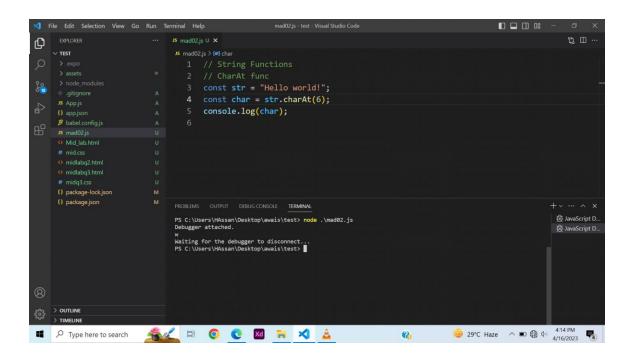
## length:

This property returns the length of a string.



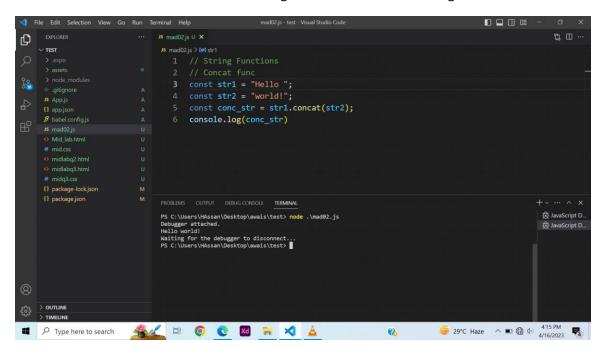
## charAt:

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



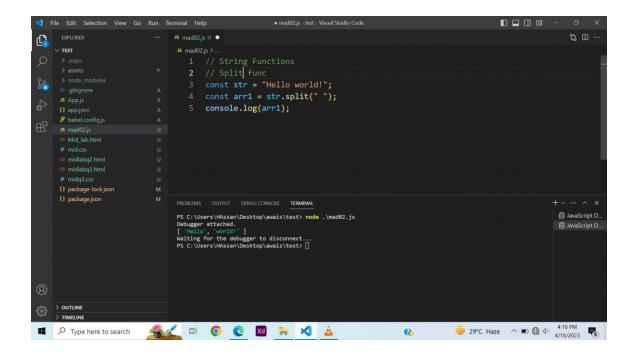
#### concat:

This method concatenates two or more strings and returns the new string.



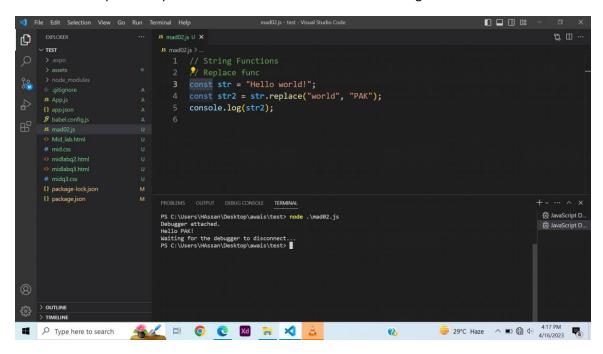
# <u>split:</u>

This method splits a string into an array of substrings based on a specified separator.



## replace:

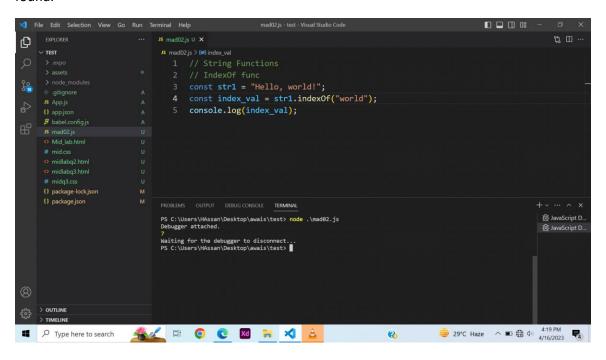
This method replaces a specified value with another value in a string.



### indexOf:

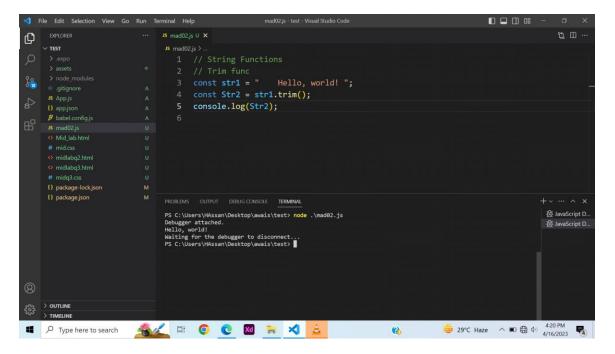
This method returns the index of the first occurrence of a specified value in a string, or -1 if it is not

found.



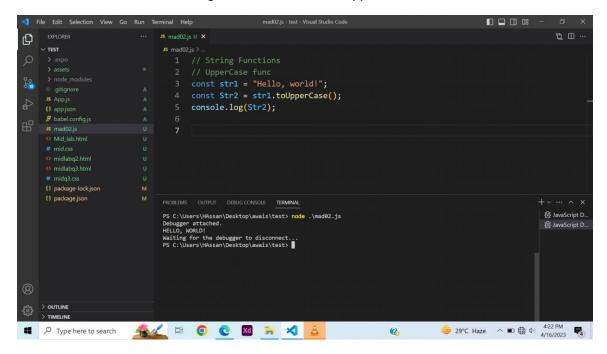
#### trim:

This method removes whitespace from both ends of a string.



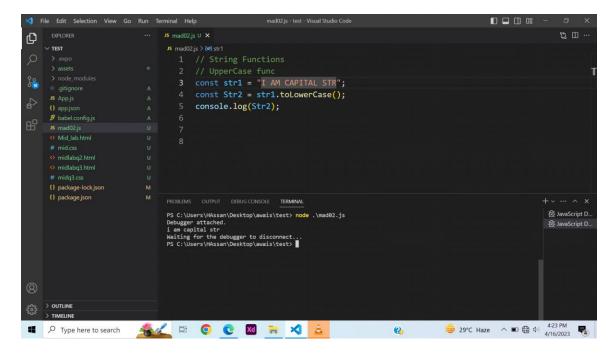
#### toUpperCase:

This method returns a new string with all characters in uppercase.



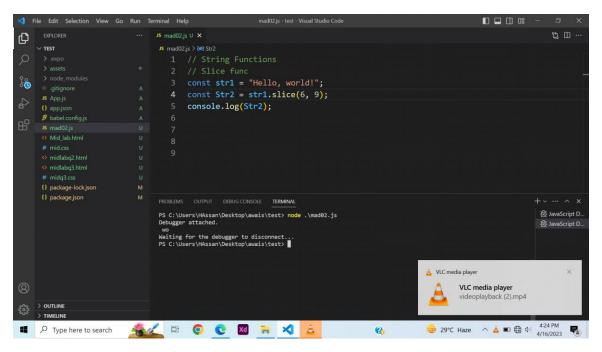
## toLowerCase:

This method returns a new string with all characters in lowercase.



#### slice:

This method returns a portion of a string into a new string.



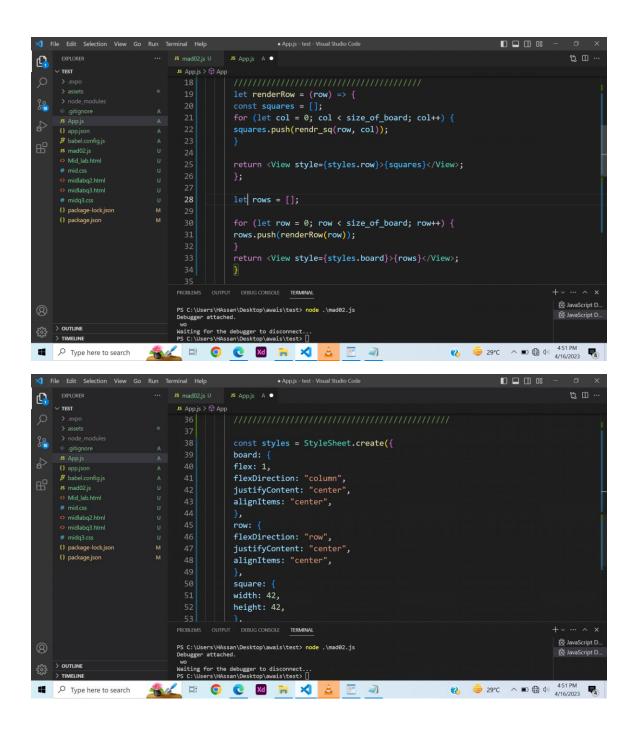
Question No: 03

Design chess board UI in react native?

#### Answer:

```
    App.js - test - Visual Studio Code

📢 File Edit Selection View Go Run Terminal Help
                                                                                                                 ლ Ш ..
C)
                                    1 import { StatusBar } from 'expo-status-bar';
2 import { StyleSheet, Text, View } from 'react-native';
                                    4 let size_of_board = 8;
                                        export default function App() {
                                          let rendr_sq = (row, column) => {
                                            let isDark = (row + column) % 2 === 1;
                                             let sqr_Colr = isDark ? "green" : "white";
     {} package.json
                                               return <View style={[styles.square, {</pre>
                                               backgroundColor: sqr_Colr }]} />;
                                  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                               爱 JavaScript D..
                                  PS C:\Users\HAssan\Desktop\awais\test> node .\mad02.js Debugger attached.
                                                                                                                               wo Waiting for the debugger to disconnect...
PS C:\Users\HAssan\Desktop\awais\test> []
    > OUTLINE
                                                                                      (4) 5 29°C ∧ ■ (8) 4√16/2023 4 4×51 PM
```



# Output:

