

Submitted By: M. Talha Atif F2021266573

Quiz 3 as assignment

1. Code:

```
<!-- Name: M.Talha Atif -->
<!-- ID: F2021266573 -->
<!DOCTYPE html>
<html lang="en">
<head>
  <title>talha atif quiz number 3</title>
  <style>
    button{
      background-color: #9be0c7;
      border-radius: 10px solid yellow;
      border-top-right-radius: 10px;

      margin: 40px;
      padding: 20px;
    }
  </style>
</head>
<!-- my body of dom document (dom is my heirarchy of elements given through
tags , root is html then so on child nodes are body and head) -->
<body>
  <!-- Button for checking number given is odd or even -->
  <button onclick="checkEvenOdd()"> Even-Odd</button>
  <!-- This div will be used to display result for even and odd number -->
  <div id="resultEvenOdd"> </div>

  <!-- Button for printing array in reverse order -->
  <button onclick="reverseArray([1,2,3,4,'talha atif','checking test post
get'])"> Reverse the array </button>
  <!-- This div will be used to display result for reverse of array -->
  <div id="reverseArray"> </div>

  <!-- Button for getting index of element in array-->
  <button onclick="useGetIndex()"> Get element index </button>
  <!-- This div will be used to display result for displaying index of
fetched element -->
  <div id="getIndex"> </div>

  <!-- Button for getting index of element in array-->
  <button onclick="takeColor()"> Set Background Color </button>
```

```

    <!-- This div will be used to display result for displaying index of
    fetched element -->
    <div id="takeColor"> </div>

    <!-- Javascript code is here below -->
    <script>
    // This function will check number taken from windows prompt
    // Using if number will be divided by 2, if remainder is zero than result
    is even
    // Else result will be odd
    // 2%2 == 0 is so it is even
    // 3%2 == 2 so it is odd
    function checkEvenOdd(){
        // taking input
        let number = parseInt( prompt('Enter a number: '))
        // checking using if condition
        // even case
        if (number%2==0){
            document.getElementById("resultEvenOdd").innerHTML= "Hey!,
you entered " + number + " -> is even (:)"
        }
        // odd case
        else{
            document.getElementById("resultEvenOdd").innerHTML= "Hey!,
you entered " + number + " -> is odd ):"
        }
    }

    // Question 2
    // function to print elements in reverse order of the array

    function reverseArray(myArray){
        // this line will add string in div reverse array
        document.getElementById("reverseArray").innerHTML = "Hey Reverse
of your given array: -> "
        // iterate from end of array index and then go upward towards 0
        like array size is 5, then 4 to 0 by
        // decrementing --, -- here is postfix operator with --
        for( i = myArray.length-1; i>=0 ; i--){
            console.log( myArray[i])
            // using ' ', we added space and using += we concatenated so
            that previous element not lost
            document.getElementById("reverseArray").innerHTML
+= myArray[i] + ' '
        }
    }

```

```

// Question 3

// function that takes number as input and give index, for doing that
we can pass array as well
// to function or may be we can create inside function
function getIndex(myArray, element){
    // this line will add string in div reverse array

    // iterate from starting index 0 to end index that is length of
array - 1
    index = -1
    for( i = 0; i < myArray.length - 1 ; i++){
        if (element == myArray[i]){
            index = i
            break; // here breaking because may be there are duplicate
values in our array being passed
        }

    } // end of for loop

    return index // it will give -1 if element is not in array
}

// Use above function to get index of array

function useGetIndex(){
    myArray = new Array(10)
    // hard code assignment
    myArray[0] = 'talha'
    myArray[1] = 'how are you'
    myArray[2] = 'how are you too'
    myArray[3] = 4
    // 30,31,32,33,34,35,36 will be values stored using below loop
(assigning using loop)
    // i've used m as index for iteration and i as value for
assignment
    m = 0
    for (i = 30, m=4; i <37; i++,m++){
        myArray[m] = i
    }
    console.log(myArray)
    let element = prompt('Hey enter element to find: ')

    // get index of element
    let obtainedIndex = getIndex(myArray, element)

    if( obtainedIndex != -1){ // -1 means that element is not there,
and not -1 mean element is there

```

```

        document.getElementById("getIndex").innerHTML = "Hey Index for
given element " + element + "is : -> " + obtainedIndex
    }
    else{

        document.getElementById("getIndex").innerHTML = '00ps! your
element is not in that array'
    }

}

// Question 4
// Taking color from user or setting it as bacground color


function takeColor(){
    color = prompt('Hey! please enter a color or you can type hex code
without hash sign (should be 6 letters for hex code)')
    if (color.length <=1 ){
        document.getElementById("takeColor").innerHTML = 'Color Length
should be greater than 1 for giving hex code or name'
    }
    hexCode = false
    for( i=0; i< color.length -1 ; i++){
        if (color[i]>='0' && color[i]<='9'){
            hexCode = true
        }
    }
    if(hexCode){ // by hexa code
        document.body.style.backgroundColor = '#' + color
        document.getElementById("takeColor").innerHTML = 'Color given
using hexacode: -> #' + color
    }
    else{ // by name
        document.body.style.backgroundColor = color
        document.getElementById("takeColor").innerHTML = 'Color given
using name: -> ' + color
    }

}

// end of script tag
</script>

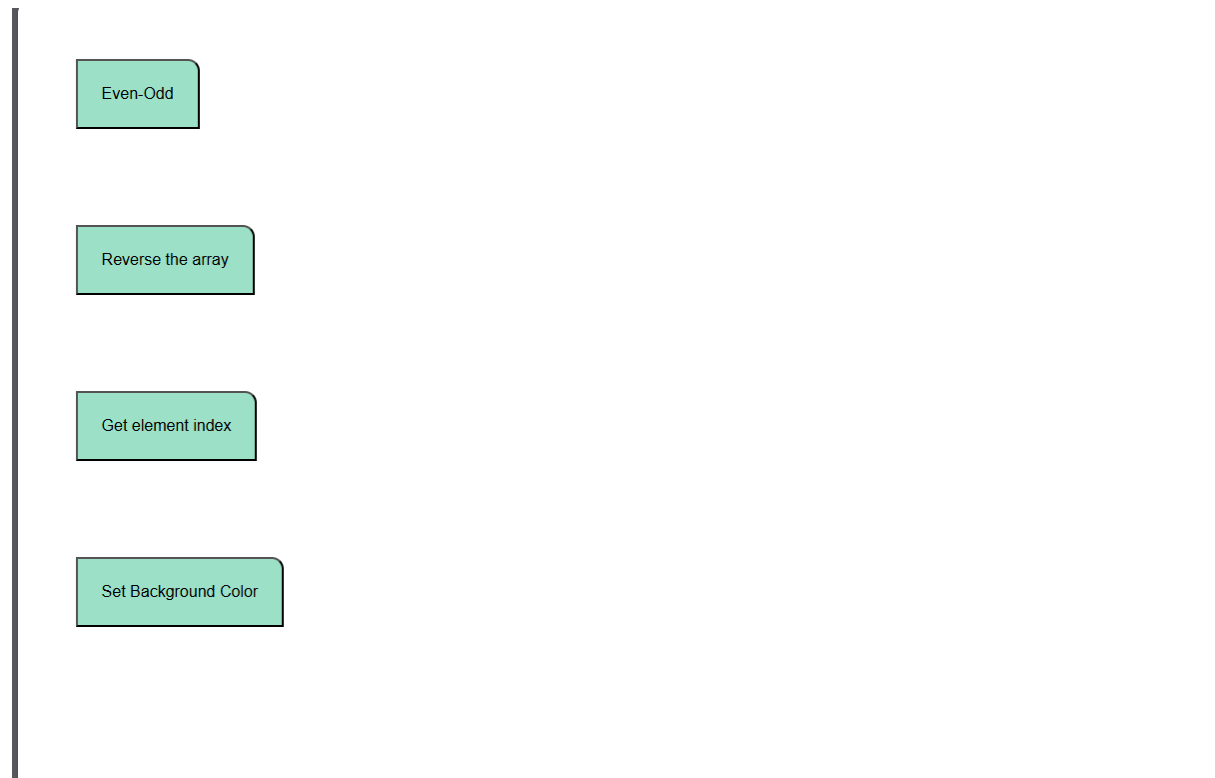
<!-- End of html body tag -->
</body>

```

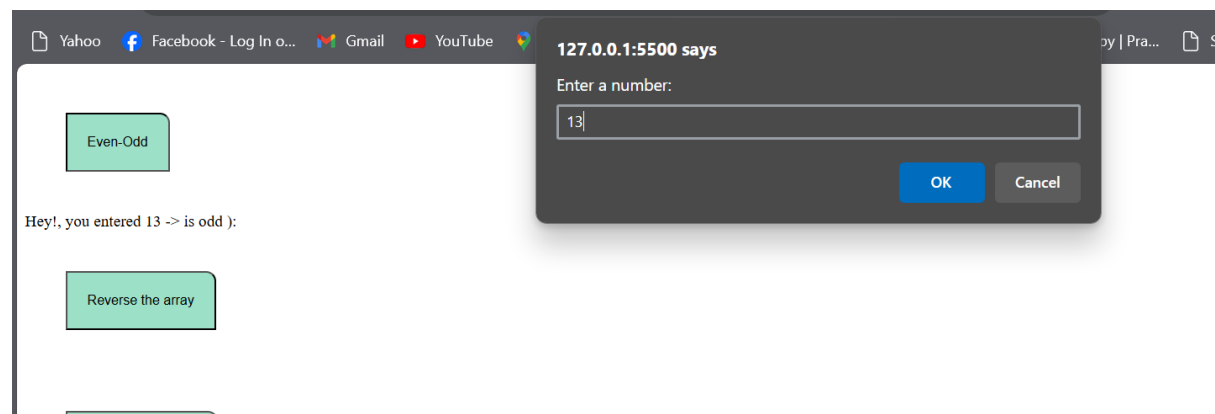
```
</html>
```

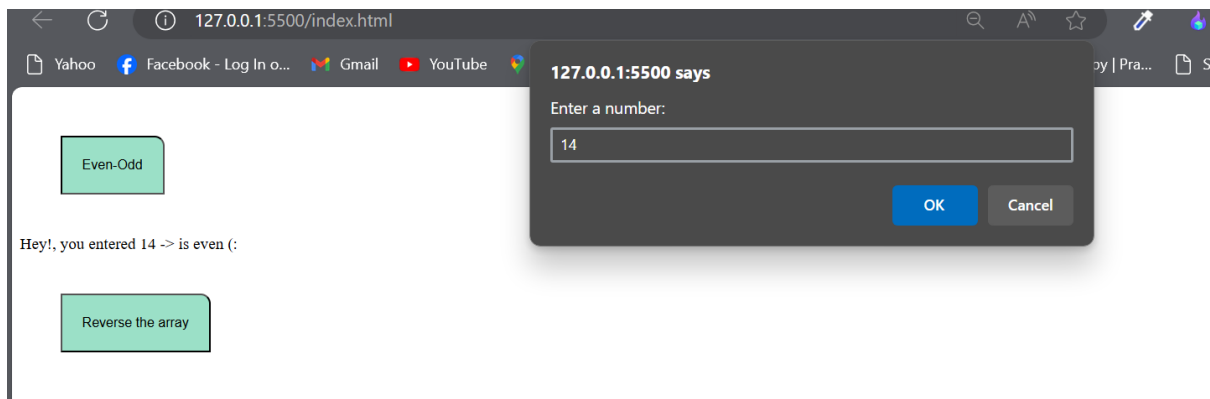
2. Output:

2.1 Initial Page



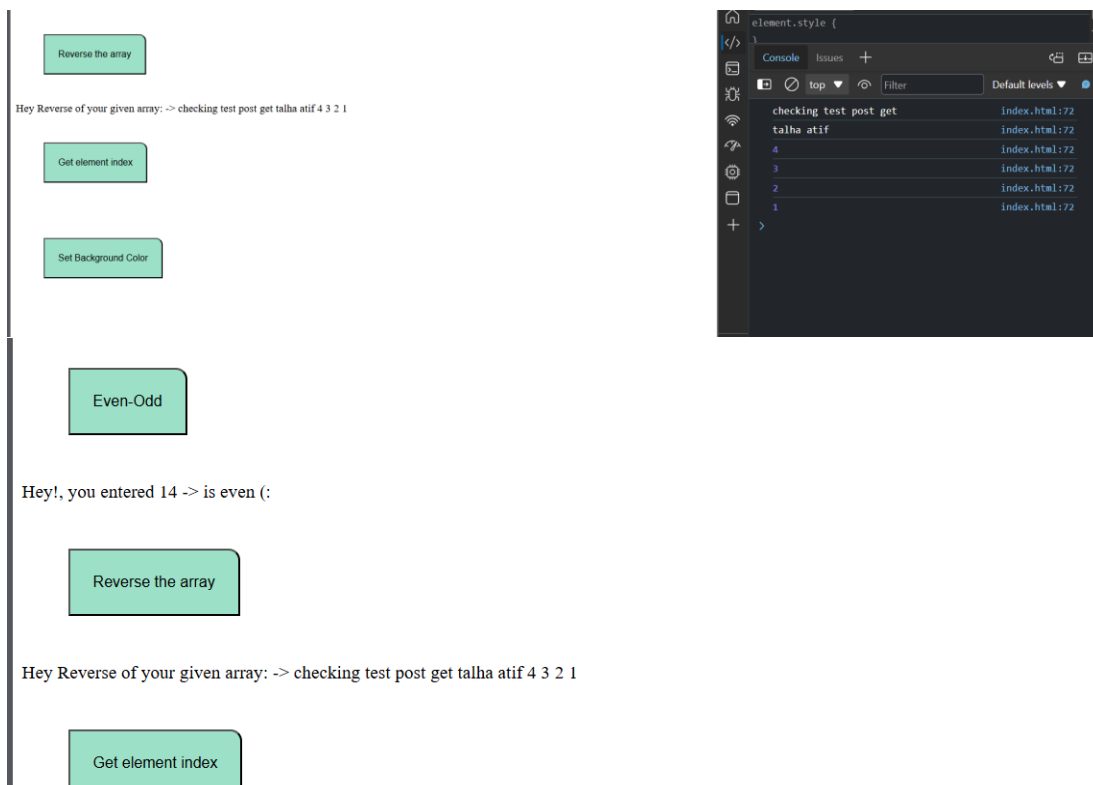
2.2 Even Odd function working





2.3 Reverse Array function working

```
<!-- Button for printing array in reverse order -->  
<button onclick="reverseArray([1,2,3,4,'talha atif','checking test post get'])"> Re
```



2.4 Element Index Function working

```
function useGetIndex(){
    myArray = new Array(10)
    // hard code assignment
    myArray[0] = 'talha'
    myArray[1] = 'how are you'
    myArray[2] = 'how are you too'
    myArray[3] = 4
    // 30,31,32,33,34,35,36 will be values stored
    // i've used m as index for iteration and i as
    m = 0
    for (i = 30, m=4; i <37; i++,m++){
        myArray[m] = i
    }
}
```

Even-Odd

Reverse the array

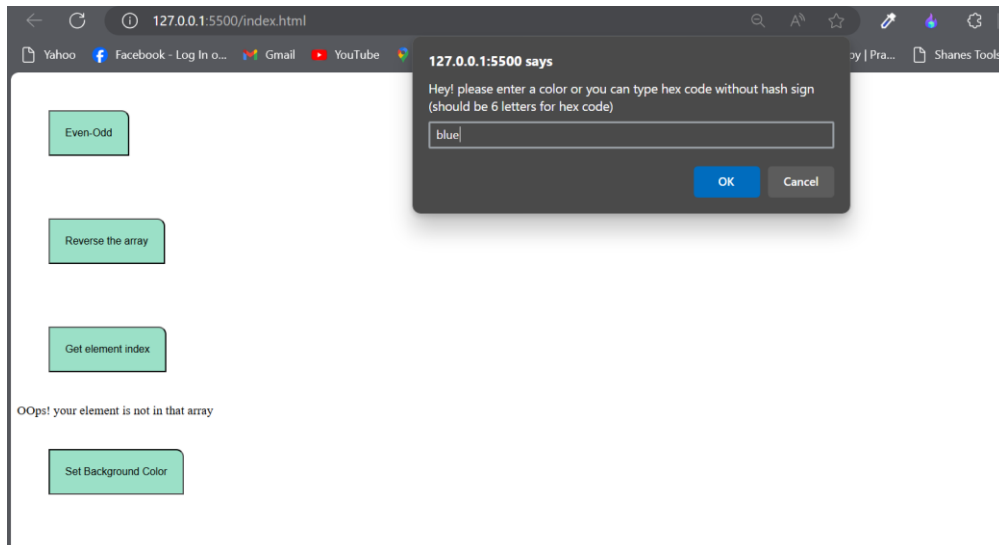
Get element index

Hey Index for given element 34 is : -> 8

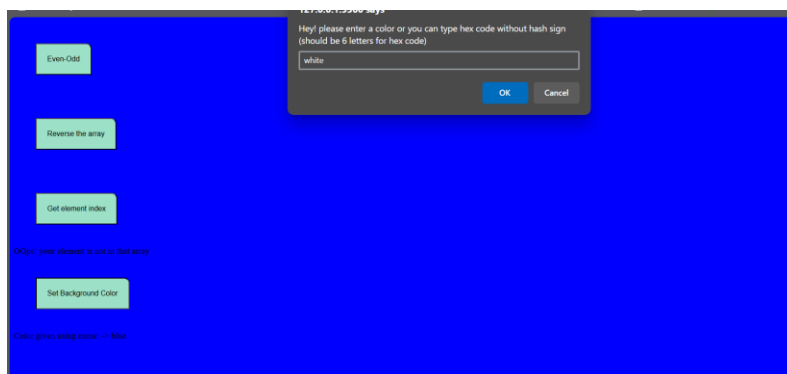
Set Background Color

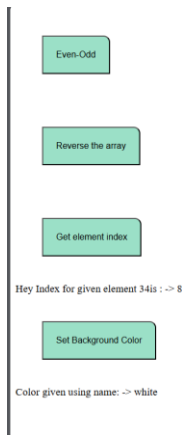
34 is given as element and its index returned to me is 8.

2.5 Function Set Background Color working

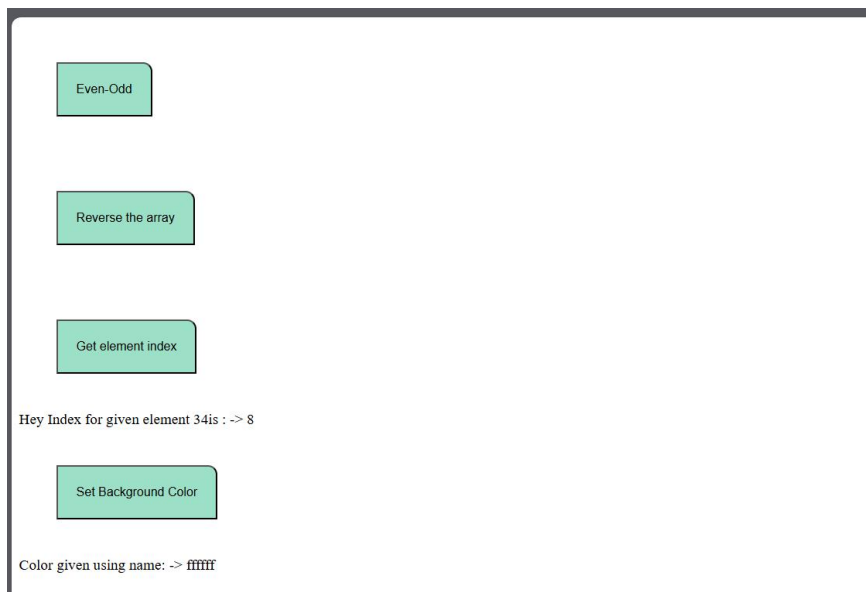
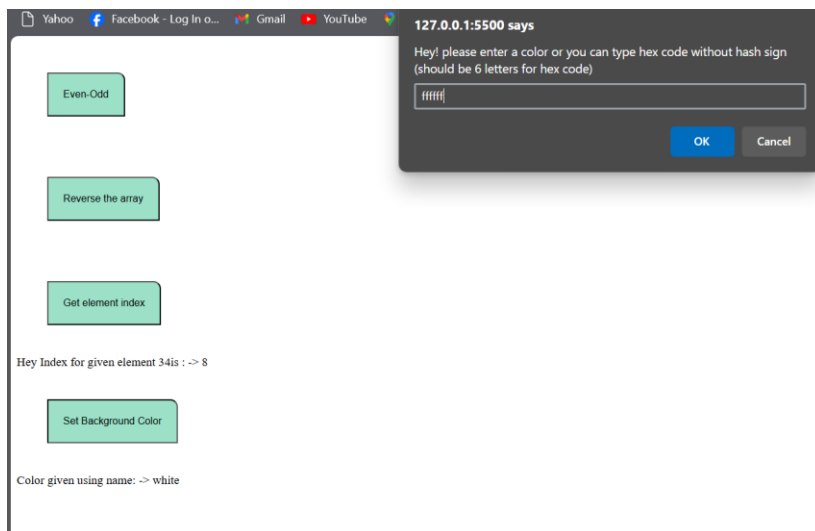


Now again setting white color,





Using hex code:



3b3b3b as input

