Day5

Sunday, 8 August 2021 12:16 PM

1. Do the below programs in anonymous function & IIFE
    1. Print odd numbers in an array
    2. Convert all the strings to title caps in a string array
    3. Sum of all numbers in an array
    4. Return all the prime numbers in an array
    5. Return all the palindromes in an array
    6. Return median of two sorted arrays of same size
    7. Remove duplicates from an array
    8. Rotate an array by k times
2. https://medium.com/@reach2arunprakash/guvi-zen-class-javascript-warm-up-programming-problems-15973c74b87f
3. Do the below programs in arrow functions
    1. Print odd numbers in an array
    2. Convert all the strings to title caps in a string array
    3. Sum of all numbers in an array
    4. Return all the prime numbers in an array
    5. Return all the palindromes in an array

1-->Do the below programs in anonymous function & IIFE

1. Print odd numbers in an array

```
let arr = [1,2,3,4,5,6,7,8,9,10,11,12];
let odd = function (){
for (let i = 0; i<arr.length; i++){
if(arr[i]%2!=0){
console.log(arr[i]);
}
}
}
odd();
(function (){
for (let i = 0; i<arr.length; i++){
if(arr[i]%2!=0){
console.log(arr[i]);
```

```
}
}
})();
```

2-->Convert all the strings to title caps in a string array

```
///var txt =['m','a','n','g'];
// var txt="mangesh";
// var len = txt.length;
// var title=function(txt) {
// for (let i = 0; i<len; i++){
// console.log( txt.charAt(i).toUpperCase());}
// }
// title(txt);
// var txt="mangesh";
// var len = txt.length;
// (function(txt) {
// for (let i = 0; i<len; i++){
// console.log( txt.charAt(i).toUpperCase());}
// }
// )(txt);
```

3-->

4. Sum of all numbers in an array

```
let arr = [1,2,3,4,5,6,7,8,9,10];
var op=0;
// let sum = function (){
// for (let i = 0; i<arr.length; i++){
// op=op+arr[i];
// }
// return op;
// }
// console.log(sum());
```

```
// ( function (){
// for (let i = 0; i<arr.length; i++){
// op=op+arr[i];
// }
// return op;
// })();
// console.log(op);
```

5. Return all the prime numbers in an array

```
let arr = [1,2,3,4,5,6,7,8,9,10];
// let prime = function(arr){
// for (let i = 0; i < arr.length;i++){
// if(arr[i]%2==0){
// continue;
// }
// else{
// console.log(arr[i]);
// }
// }
// }
// prime(arr);
// ( function(arr){
// for (let i = 0; i < arr.length;i++){
// if(arr[i]%2==0){
// continue;
// }
// else{
// console.log(arr[i]);
// }
// }
// })(arr);
```

6. Return all the palindromes in an array

```
/ var checkPalindrom=function (str) { //function th
checks if palindrome or not
```

nat

```
// return str == str.split('').reverse().join('');
// }
// console.log(checkPalindrom("1212"));
// --->>ERROR check it how to do it with ife functi
// var str1='121';
// (function (str1) { //function that checks if
palindrome or not
// return str1 == str.split('').reverse().join('');
// })();
// console.log(str1);
```

7. Return median of two sorted arrays of same size

```
// var getMedian =function (ar1, ar2, n)
// {
// var i = 0; /* Current index of i/p array ar1[] *
// var j = 0; /* Current index of i/p array ar2[] *
// var count;
// var m1 = -1, m2 = -1;
// /* Since there are 2n elements, median will be
average
// of elements at index n-1 and n in the array
obtained after
// merging ar1 and ar2 */
// for (count = 0; count <= n; count++)
// {
// /*Below is to handle case where all elements of
ar1[] are
// smaller than smallest(or first) element of ar2[]
// if (i == n)
// {
// m1 = m2;
// m2 = ar2[0];
// break;
// }
// /*Below is to handle case where all elements of
```

```
iom

;

*/
*/

*/
```

```
ar2[] are
// smaller than smallest(or first) element of ar1[]
// else if (j == n)
// {
// m1 = m2;
// m2 = ar1[0];
// break;
// }
// /* equals sign because if two
// arrays have some common elements */
// if (ar1[i] <= ar2[j])
// {
// m1 = m2; /* Store the prev median */
// m2 = ar1[i];
// i++;
// }
// else
// {
// m1 = m2; /* Store the prev median */
// m2 = ar2[j];
// j++;
// }
// }
// return (m1 + m2)/2;
// }
// /* Driver program to test above function */
// var ar1 = [1, 12, 15, 26, 38];
// var ar2 = [2, 13, 17, 30, 45];
// var n1 = ar1.length;
// var n2 = ar2.length;
// if (n1 == n2)
// console.log("Median is "+ getMedian(ar1, ar2,
n1));
```

Remove duplicates from an array

]*/

```
// var n1 = ar1.length;
// var n2 = ar2.length;
// if (n1 == n2)
// console.log("Median is "+ getMedian(ar1,
ar2, n1));
```

Remove duplicates from an array

```
// var arr = [1, 13, 15, 13,15,16,16,17];

// var removeDuplicatesInPlace = function
(arr) {
// var i, j, cur, found;
// for (i = arr.length - 1; i >= 0; i--) {
// cur = arr[i];
// found = false;
// for (j = i - 1; !found && j >= 0; j--) {
// if (cur === arr[j]) {
// if (i !== j) {
// arr.splice(i, 1);
// }
// found = true;
// }
// }
// }
// return arr;
// };
// removeDuplicatesInPlace(arr);
// console.log(arr);
```

8. Rotate an array by k times

```
// var rotate = function(nums, k) {
// for (let i = 0; i < k; i++) {
// nums.unshift(nums.pop())
// }
```

```
// }
// return nums;
// };

( function(nums, k) {
// for (let i = 0; i < k; i++) {
// nums.unshift(nums.pop())
// }
// return nums;
// })();
```

9. Do the below programs in arrow functions
    1. Print odd numbers in an array
    2. Convert all the strings to title caps in a string array
    3. Sum of all numbers in an array
    4. Return all the prime numbers in an array
    5. Return all the palindromes in an array

```
1-->
let arr = [1,2,3,4,5,6,7,8,9,10,11,12];
let odd = ()=>{
for (let i = 0; i<arr.length; i++){
if(arr[i]%2!=0){
console.log(arr[i]);
}
}
}
odd();


2-->
```

```
var txt =['m','a','n','g'];
var txt="mangesh";
var len = txt.length;
var title=(txt)=> {
for (let i = 0; i<len; i++){
console.log( txt.charAt(i).toUpperCase());}
}
title(txt);


3-->
let arr = [1,2,3,4,5,6,7,8,9,10];
var op=0;
let sum = ()=>{
for (let i = 0; i<arr.length; i++){
op=op+arr[i];
}
return op;
}
console.log(sum());

4-->
let arr = [1,2,3,4,5,6,7,8,9,10];
let prime = (arr)=>{
for (let i = 0; i < arr.length;i++){
if(arr[i]%2==0){
continue;
}
else{
console.log(arr[i]);
}
}
}
prime(arr);
```

```
5-->
var checkPalindrom= (str)=> { //function that
checks if palindrome or not
return str ==
str.split('').reverse().join('');
}
console.log(checkPalindrom("1212"));
```