**Day06 Assignment**

**1.Do the below programs in anonymous function & IIFE**

**a. Print odd numbers in an array**

**Answer:**

Var arr=[1,2,3,4,5,6];

Var compute=function(arr){

For(var i=0; i<arr.length,i++){

If (arr[i]%3===0){

Console(arr[i]);

}}}

Compute(arr);

**b. Convert all the strings to title caps in a string array**

**Answer:**

var str =('balaji')

var compute=function titleCase(str) {

return str.toLowerCase().replace(/\b(\w)/g, s => s.toUpperCase());

}

console.log(compute(str));

**c. Sum of all numbers in an array**

**Answer:**

const sum = [1, 2, 3].reduce(add, 0);

function add(accumulator, a) {

return accumulator + a;

}

console.log(sum);

**D.Return all the prime numbers in an array**

**Answer:**

const newArray = [1, 3, 2, 5, 10];

const isPrime = num => {

for (let i = 2; i < num; i++) {

if (num % i === 0) return false;

}

return num !== 1;

};

const myPrimeArray = newArray.filter(element => isPrime(element));

console.log(myPrimeArray);

**e.Return all the palindromes in an array**

const arr = ['carecar', 1344, 12321, 'did', 'cannot'];

const isPalindrome = el => {

const str = String(el);

let i = 0;

let j = str.length - 1;

while(i < j) {

if(str[i] === str[j]) {

i++;

j--;

}

else {

return false;

}

}

return true;

};

const findPalindrome = arr => {

return arr.filter(el => isPalindrome(el));

};

console.log(findPalindrome(arr));

**F.Return median of two sorted arrays of same size**

**Answer:**

const median = arr => {

const mid = Math.floor(arr.length / 2),

nums = [...arr].sort((a, b) => a - b);

return arr.length % 2 !== 0 ? nums[mid] : (nums[mid - 1] + nums[mid]) / 2;

};

console.log(median([5, 6, 50, 1, -5]));

console.log(median([1, 2, 3, 4, 5]));

**g. Remove duplicates from an array**

**Answer:**

const array = [1,1,2,3,3,4,4,5,5];

const set = new Set(array);

const uniqueArray = [...set];

console.log(uniqueArray);

**h.Rotate an array by k times**

**Answer:**

const rotate = (arr, count = 1) => {

return [...arr.slice(count, arr.length), ...arr.slice(0, count)];

};

const arr = [1,2,3,4,5];

console.log(rotate(arr, 1));

1. **Find the culprit**

**Answer:**

<!DOCTYPE html>

<html>

<body>

<script>

alert( "I’m JavaScript!");

</script>

Whats the error in this ?

</body>

</html>

1. **Find the culprit and invoke the alert**

var request = new XMLHttpRequest();

request.open('Get','https://restcountries.com/v3.1/all',true);

request.send();

request.onload=function(){

var data=JSON.parse(request.response);

console.log(data);{

alert("I’m invoked!");

}}

**3.Explain the below how it works**

**var request = new XMLHttpRequest();**

**request.open('Get','https://restcountries.com/v3.1/all',true);**

**request.send();**

**request.onload=function(){**

**var data=JSON.parse(request.response);**

**console.log(data);{**

**alert("I'm JavaScript!");**

**alert("Hello") // this line is not having semicolon**

**alert("World")**

**alert(3 +1+ 2);**

**}}**

1. **Fix the below to alert**Guvi geek

**var request = new XMLHttpRequest();**

**request.open('Get','https://restcountries.com/v3.1/all',true);**

**request.send();**

**request.onload=function(){**

**var data=JSON.parse(request.response);**

**console.log(data);{**

**let admin=9, fname=10.5;**

**fname = "Guvi";**

**lname = "geek"**

**admin = fname+lname;**

**alert( admin );**

**}}**

**4.Fix the below to alert**hello Guvi geek

**let fname=10.5;**

**fname = "Guvi";**

**lname = "geek"**

**let name = fname+lname;**

**alert( 'hello'+name+" ");**

**5. Fix the below to alert sum of two numbers**

**let a = parseInt(1);**

**let b = parseInt(2);**

**alert(a + b);**

**}}**

**3. https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359**

**1.Write a code to print the numbers in the array**

**var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];**

**var new\_string = " ";**

**for (var i =0; i <arr.length; i++) {**

**new\_string = numsArr[i]**

**}**

**console.log(new\_string);**

**2.Write a code to print the numbers in the array**

**var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];**

**var new\_string = " ";**

**for (var i = 1; i <arr.length; i++) {**

**new\_string += numsArr[i] +" ",**

**}**

**console.log(new\_string);**

**3.Write a code to print from last to first with spaces (Make sure there is no space after the last element 1)**

**var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];**

**var new\_string = “”;**

**for (var i = 11; i > 0; i — ){**

**new\_string += numsArr[i] + “ “**

**}**

**console.log(new\_string);**

1. [**https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359**](https://medium.com/@reach2arunprakash/www-guvi-io-zen-4fa483a7d359)

**var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];**

**for (var i = 0; i <=10; i++) {**

**if(numsArr[i] %2 == 0 )**

**{**

**numsArr[i] = even**

**}**

**}**

**console.log(numsArr);**

1. **Write a code to replace the array value — If the index is even, replace it with ‘even’.**

**var numsArr = [ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11];**

**for (var i = 0; i <=10; i++) {**

**if(numsArr[i] %2 == 0 )**

**{**

**numsArr[i] = even**

**}**

**}**

**console.log(numsArr);**

**4.** <https://medium.com/@reach2arunprakash/guvi-zen-simple-debugging-tasks-adcdc2d3249d>

**1.Fix the code to get the largest of three.**

**aa = (f,s,t) => {**

**let f,s,t;**

**console.log(f,s,t);**

**if(f>s &&f>t){**

**console.log(f)}**

**else if(s>f && s>t){**

**console.log(s)}**

**else{**

**console.log(t)}**

**}**

**aa(1,2,3);**

**2. Fix the code to Sum of the digits present in the number**

**let n = 123;**

**console.log(add(n));**

**function add(n)**

**{**

**let sum = 10;**

**for(var i=0;i<n.length;i++){**

**sum+=n[i]**

**}**

**return sum;**

**}**

**3.Fix the code to Sum of all numbers using IIFE function**

**const arr = [9,8,5,6,4,3,2,1];**

**(function() {**

**let sum = 0;**

**for (var i = 0; i <= arr.length; i++);{**

**sum += arr[i];**

**}**

**console.log(sum);**

**return sum;**

**})();**

**4. Fix the code to gen Title caps.**

**cvar arr = [“guvi”, “geek”, “zen”, “fullstack”];**

**var ano = function(arro) {**

**for (var i = 0; i <= arro.length; i++) {**

**console.log(arro[i][0].toUpperCase() + arro[i].substr(1));**

**}**

**}**

**ano();**

**5.Fix the code to return the Prime numbers**

**const newArray=[1,3,2,5,10];**

**const myPrime=newArray.filter(num=>{**

**for(let i=2;i<=num;i++){**

**if(num%i===0)**

**{**

**return true;**

**}**

**}**

**return num===1;**

**});**

**console.log(myPrime);**