**Day:5 Assignment**

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

1. **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);

1. **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));

1. **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));

**2.**[**https://medium.com/@reach2arunprakash/guvi-zen-class-javascript-warm-up-programming-problems-15973c74b87f**](https://medium.com/@reach2arunprakash/guvi-zen-class-javascript-warm-up-programming-problems-15973c74b87f)

**Answer:**

* + 1. **Fill in your code that takes an number minutes and converts it to seconds.**

Answer:

let arr=[5,3,2];

arr.forEach( ele=>console.log(ele\*60));+

**b. Create a function that takes a string and returns it as an integer.**

**Answer:**

let arr=["6","1000","12"];

arr.forEach(ele=>console.log(parseInt(ele)))

c.Create a function that takes a number as an argument, increments the number by +1 and returns the result.

Answer:

let arr=[0,9,-3];

arr.forEach(ele=>console.log((ele+1)));

1. **Create a function that takes an array and returns the first element.**

**Answer:**

function compute (arr, n){

if(n==null)

return arr[0];

}

{

console.log(compute([7,9,8,4]));

console.log(compute([80, 5, 100]));

console.log(compute([-500, 0, 50]));

}

**e.Convert Hours into Seconds**

**Answer:**

let arr=[2,10,24];

arr.forEach( ele=>console.log((ele\*60)\*60));

**f. Find the Perimeter of a Rectangle  
Create a function that takes height and width and finds the perimeter of a rectangle**

**Answer:**

var compute=function(a,b){

return ((a+b)\*2);

}

console.log(compute(6,7));

console.log(compute(20,10));

console.log(compute(2,9));

**3.Do the below programs in arrow functions**

**Answer:**

a.Print odd numbers in an array

let numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9];

let es5OddNumbers = numbers.filter(function(number) {

return number % 2;

});

ChromeSamples.log(es5OddNumbers);

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

**Answer:**

const res = String.prototype.toUpperCase.call({

toString: function toString() {

return 'abcdef';

}

});

**console.log(res);**

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

**Answer:**

Var res=(a,b,c)=>a+b+c;

Console.log(res(1,2,3);

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

const isPrime = num => {

const boundary = Math.floor(Math.sqrt(num));

for (var i = 2; i <= boundary; i++) if (num % i === 0) return false;

return num >= 2;

};

console.log(isPrime(11));

console.log(isPrime(17));

console.log(isPrime(8));

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

**Answer:**

var name = ("bab");

const isPalindrome = name => {

const midPoint = name.length / 2;

for (let i = 0; i < midPoint && i < name.length; i++) {

if (name[i] != name[name.length - 1 - i]) {

console.log(" Not Palindrome");

return;

}

}

console.log("Palindrome");

}

isPalindrome(name);