**JAVASCRIPT DAY 5**

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

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

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

var compute = function(arr)

{

for(let i= 0;i<arr.length;i++)

{

if(arr[i]%2!=0)

{

console.log(arr[i]);

}

}

}

compute(arr);

OUTPUT:

1

3

5

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

function title(str) {

return str.replace( function(t) { return t.toUpperCase() });

}

console.log(title('hello everyone'));

OUTPUT: ‘Hello Everyone’

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

const arr = [2,4,6,8,10,12];

var compute = function(arr){

let sum = 0;

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

if(sum += arr[i]);

{

}

}

console.log(sum);

}

compute(arr);

OUTPUT: 42

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

const arr = [1,2,3,4,5,6,7,8,9,10];

function isPrime(num){

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

if(arr[i]==0)

{

return num>0;

console.log(arr.isPrime);

}

}

}

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

let str = ['olleh'];

var res = str.toString().split("").reverse().join("").split(",");

for (let i = 0; i < str.length; i++) {

for (let k = 0; k < res.length; k++) {

if (str[i] == res[k]) {

str.push(str[i])

}

}

}

console.log(res);

OUTPUT: [‘hello’]

**Do the below programs in arrow functions**

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

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

var res = arr.filter(n => n%2 !=0);

console.log(res);

OUTPUT: [1,3,5]

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

let str =(s) => s.toUpperCase();

console.log(str('hello everyone'));

OUTPUT: ‘HELLO EVERYONE’

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

var res=(a,b)=>a+b;

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

OUTPUT: 30

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

var a = [1,2,3,4,5,6,7]

var prime=[];

function isPrime(num) {

var a = num / 2;

for (var j = 2; j <= a; j++) {

if ((num % j) == 0) {

return false;

}

}

return true;

}

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

if (isPrime(a[i])) {

prime.push(a[i])

}

}

console.log(prime);

OUTPUT : [1,2,3,5,7]

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

const arr = function (str) {

return str.filter(function (str) {

return str.split("").reverse().join("") === str;

});

};

console.log(arr(["hello","world","level", "noon"]));

OUTPUT: [“level”, “noon”]