DAY-5: (Functions- Arrow)

1. Do the below programs in ARROW function:
   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) a) Print odd numbers in an array:

var oddNumbers = (array1) => {

let temp=[];

    for (var i=0;i<array1.length;i++){

        if (array1[i]%2!==0){

             temp.push(array1[i]);

        }

    }

    return temp;

}

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

Output: [1,3,5]

1) b) Convert all the strings to title caps in a string array:

var titlecaps= (text) => {

    text=text.toLowerCase().split(' ');

    for(var i=0;i<text.length;i++){

        text[i]=text[i].charAt(0).toUpperCase()   +text[i].slice(1);

    }

    return text.join(' ');

}

console.log(titlecaps("Zen class guvi b32 batch switch"));

Output: Zen Class Guvi B32 Batch Switch

1) c) Sum of all numbers in an array:

var sumArray= (array2) => {

    let sum=0;

    for(var i=0;i<array2.length;i++){

        sum=sum+array2[i];

    }

    return sum;

}

console.log(sumArray([10,20,30,40]));

Output: 100

1) d) Return all the prime numbers in an array:

var primeNum=[];

var prime=(num) => {

    if(num==1){

        return false;

    }else{

    for(var i=2;i<=num/2;i++){

        if(num%i==0){

            return false;

        }

    }

    return true;

}

}

console.log(prime(17));

console.log(prime(18));

var array4=[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15];

for(var index=0;index<array4.length;index++){

    if(prime(array4[index])){

        primeNum.push(array4[index]);

    }

}

console.log(primeNum);

Output: true

false

[2, 3, 5, 7, 11, 13]

1) e) 1. Return all the palindromes in an array:

var palindrome =(array5) => {

    var arrayLength=array5.length;

    if(arrayLength%2==0){

        return false;

    }else{

        for(var i=0;i<arrayLength;i++){

            if(array5[i]!==array5[arrayLength-i-1]){

                return false;

            }

        }

        return true;

    }

}

console.log(palindrome([1,2,3,2,1]));

console.log(palindrome([1,2,3,2,2]));

console.log(palindrome([1,2,2,1]));

Output: true

false

false