## 3. Do the below programs in arrow functions

## 1. Print odd numbers in an array

let arr=[2,3,4,5,6,7,8,9,10,11,12,13];

let res=[];

let odd=(s)=>s%2===1?true:false;

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

if(odd(arr[i]))

res.push(arr[i])

}

console.log(res);

output:

[ 3, 5, 7, 9, 11, 13 ]

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

let arr=["apple","banana","carrot","delicious","egg","fish"];

let res=[];

let capFirst=(s)=>s.charAt(0).toUpperCase()+s.slice(1);

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

res.push(capFirst(arr[i]));

}

console.log(res);

Output

[ 'Apple', 'Banana', 'Carrot', 'Delicious', 'Egg', 'Fish' ]

3. Sum of all numbers in an array

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

let res=0;

let sum=(s)=>res=res+s;

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

res=sum(Number(arr[i]));

}

console.log(res);

Output

45

4. Return all the prime numbers in an array

let arr=[2,3,4,5,6,7,8,9,10,11,12,13];

let res=[];

let prime = num => {

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

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

}

return true;

};

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

if(arr[i]===0||arr[i]===1) continue;

else{

if(prime(arr[i]))

res.push(arr[i]);

}};

console.log(res.join());

Output

2,3,5,7,11,13

5. Return all the palindromes in an array

let arr=[11,12,121,99,110,131,117];

let res=[];

let palindrome = num => {

let x=num.toString().split("");

if(x.length===1) return true;

for (let i = 0,j=x.length-1; i < x.length/2; i++,j--) {

if(x[i]===x[j]) continue;

else return false;}

return true;

}

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

if(palindrome(arr[i]))

res.push(arr[i]);

}

console.log(res.join());

Output

11,121,99,131