2. Do the below programs in arrow functions

a. Print odd numbers in an array

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

let oddNumbers = numbers.filter(number => number % 2 !== 0);

console.log("Odd Numbers:", oddNumbers);

output:

Odd Numbers: [ 1, 3, 5, 7, 9 ]

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

let stringArray = ["wellcome","to","guvi zen class"];

let titleCaseArray = stringArray.map((str) => str.split(' ').map(word => word.charAt(0).toUpperCase() + word.slice(1)).join(' '));

console.log(titleCaseArray);

output:

[ 'Wellcome', 'To', 'Guvi zen class' ]

c. Sum of all numbers in an array

let sum=(numbers) => {

let total= 0;

for(let index=0; index < numbers.length; index++){

total=total+numbers[index];

}

console.log(total);

}

numbers=[1,4,5,6,7,]

sum(numbers)

output:

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d.Return all the prime numbers in an array

let numberArray = [2, 3, 5, 8, 11, 13, 17, 20];

let isPrime = (num) => {

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

if (num % i === 0) {

return false;

}

}

return num > 1;

};

let primeNumbers = numberArray.filter((num) => isPrime(num));

console.log(primeNumbers);

output:

[ 2, 3, 5, 11, 13, 17 ]

e.Return all the palindromes in an array

let stringArray = ["level", "hello", "radar", "world", "deified"];

let isPalindrome = (str) => str === str.split('').reverse().join('');

let palindromeArray = stringArray.filter((str) => isPalindrome(str));

console.log(palindromeArray);

output:

[ 'level', 'radar', 'deified' ]