**Bagian 1. Ubahlah syntax ES5 berikut ke dalam ES6**

**1.**

function calculateAge(birthYear){

return 2019 - birthYear;

}

function yearUntilRetirement(object){

var age = calculateAge(object.year);

var retirement = 60 - age;

if(retirement > 0){

console.log(object.firstName + ' retires in '+ retirement + ' years');

} else {

console.log(object.firstName + ' is already retired.');

}

}

yearUntilRetirement({year: 1987, firstName: 'John'});

**Answer:**

**function calculateAge(birthYear){**

**return 2019 - birthYear;**

**}**

**function yearUntilRetirement({year, firstName}) {**

**const age = calculateAge(year);**

**const retirement = 60 - age;**

**if(retirement > 0){**

**console.log(`${firstName} retires in ${retirement} years`);**

**} else {**

**console.log(`${firstName} is already retired.`);**

**}**

**}**

**yearUntilRetirement({year: 1987, firstName: 'John'});**

**2.**

const addNumber = (a, b, c, d, e, f, g) => {

var numbers = [a, b, c, d, e, f, g];

var sum = 0;

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

sum += numbers[i];

}

return sum;

}

console.log(addNumber(1,2,3,4,5,6,7));

**NOTE**: please use the map function

**Answer:**

**const addNumber = (a, b, c, d, e, f, g) => {**

**const numbers = [a, b, c, d, e, f, g];**

**let sum = 0;**

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

**sum += numbers[i];**

**}**

**return sum;**

**}**

**console.log(addNumber(1,2,3,4,5,6,7));**

**3.**

var phi = 3.14;

var power = 2;

var radius = 0;

var calculateArea = function (obj) {

return phi \* Math.pow(obj.radius, obj.power);

};

radius = 21;

var area21 = calculateArea({radius: radius, power: 2 });

radius = 7;

var area7 = calculateArea({radius: radius, power: 2 });

console.log('area with 21 radius: ' + area21 + ', and area with 7 radius: ' + area7);

**Answer:**

**const phi = 3.14;**

**const power = 2;**

**let radius = 0;**

**const calculateArea = obj => phi \* (obj.radius \*\* obj.power);**

**radius = 21;**

**const area21 = calculateArea({radius, power: 2 });**

**radius = 7;**

**const area7 = calculateArea({radius, power: 2 });**

**console.log(`area with 21 radius: ${area21}, and area with 7 radius: ${area7}`);**

**4.**

const makeAjaxRequest = (url, method) => {

if(!method){

method = ‘GET’

}

console.log(url, method);

}

makeAjaxRequest(‘www.google.com’);

**Answer:**

**const makeAjaxRequest = (url, method) => {**

**if(!method){**

**method = 'GET'**

**}**

**console.log(url, method);**

**}**

**makeAjaxRequest('www.google.com');**

**Bagian 2. Tulislah kode program dari soal berikut.**

1. Buat sebuah function warnaKesukaan dengan parameter warna, berikan "putih" sebagai default parameter untuk warna dan kembalikan "Warna kesukaan saya adalah " + warna.(Note: Gunakan arrow function dan Template literals).

const warnaKesukaan = (warna) => {

    return `Warna Kesukaan Saya adalah ${warna}`;

}

console.log(warnaKesukaan('Putih'));

1. Gunakan *spread operator* untuk menggabungkan namaBuah1 dan namaBuah2, dan masukkan hasilnya ke dalam semuaNamaBuah. semuaNamaBuah harus sama dengan ["apel", "mangga", "sirsak", "semangka"]

let namaBuah1 = ['apel', 'mangga'];

let namaBuah2 = ['sirsak', 'semangka'];

let semuaNamaBuah;

// Tulis kode kalian di bawah ini

const semuaNamaBuah = [namaBuah1, namaBuah2];

console.log(semuaNamaBuah);

~Thank You