**Question 1:**

var employees = [

{ id: 10, name: 'John', experience: 5},

{ id: 15, name: 'Mathew', experience: 7},

{ id: 20, name: 'keith', experience: 12},

{ id: 25, name: 'louis', experience: 5},

{ id: 30, name: 'mark', experience: 4},

{ id: 35, name: 'Ash', experience: 3},

{ id: 40, name: 'robert', experience: 6},

]

Print: All ID’s in an array example: [10, 15, 20, 25, 30, 35, 40]

**var elem = employees.map(employee=>employee.id);**

**console.log(elem);**

Print: TOTAL no of years’ experience they all have

**var sum = employees.reduce((add,employee) => add+employee.experience,0);**

**console.log(sum);**

Print: All employees whose experience is greater than 5 years

**var employee = employees.find(item => item.experience > 5);**

**console.log(employee);**

**Question 2:**

let cat = {

catName: 'Kitty',

sayName () {

console.log(this.catName);

}

}

let sayName = cat.sayName;

Fix to Print out ‘Kitty’

**let cat = {**

**catName: 'Kitty',**

**sayName () {**

**return this.catName ;**

**}**

**};**

**let sayName = cat.sayName();**

**console.log(sayName);**

**Question 3:**

class user {

displayName() {

return this.name + ‘ is in ‘ + this.location;

}

}

var user1 = new user(‘Marlabs’, ‘New Jersey’);

console.log(user1.displayName());

Print: ‘Marlabs is in New Jersey’ (DO NOT create variables outside the User class)

**class user {**

**constructor(name,location)**

**{**

**this.name = name;**

**this.location = location;**

**}**

**displayName()**

**{**

**return this.name + " is in " + this.location;**

**}**

**}**

**var user1 = new user("Marlabs", "New Jersey");**

**console.log(user1.displayName( ));**

**Question 4:**

function myName(fName, lName) {

console.log(`my name is ${fName} ${lName}`);

function fullDetails(companyName) {

const value = `my name is ${fName} ${lName} and I work for ${companyName}`

return value;

}

return fullDetails;

}

Print: ‘My name is Althaf Pattan and I work for Marlabs’

**function myName(fName, lName)**

**{**

**//console.log(`my name is ${fName} ${lName}`);**

**function fullDetails(companyName)**

**{**

**const value = `my name is ${fName} ${lName} and I work for ${companyName}`;**

**return value;**

**}**

**return fullDetails("Marlabs");**

**}**

**console.log(myName("Sam","P"));**

**Question 5:**

var pokemon = {

firstname: 'Pika',

lastname: 'Chu ',

getPokeName: function() {

var fullname = this.firstname + ' ' + this.lastname;

return fullname;

}

};

var pokemonName = function(snack, hobby) {

console.log(this.getPokeName() + 'I choose you!');

console.log(this.getPokeName() + ' loves ' + snack + ' and ' + hobby);

};

Print: ‘Pika Chu loves sushi and algorithms’

**pokemonName.call(pokemon,"sushi","algorithms");**

Question 6:

var x = ‘5’;

var promise1 = new Promise(function(resolve, reject) {

if (x = 5) {

let data = {

name: 'Marlabs',

address: {

state: 'NJ',

zip: 084444

}

}

console.log(data);

resolve();

} else {

var res = new Error('failed......');

reject(res);

}

});

var promise2 = function(address) {

var msg = address.state + ' ' + address.zip;

return Promise.resolve(msg);

}

var myFunc = function() {

promise1

.then(promise2)

.then((data) => {

console.log(data);

})

.catch(err => {

console.log(err.message);

});

};

Print: ‘Marlabs address: New jersey, 08444’

**var x = 5;**

**var promise1 = new Promise(function(resolve, reject) {**

**if (x == 5) {**

**var data = {**

**name: 'Marlabs',**

**address: {**

**state: 'NJ',**

**zip: 084444**

**}**

**};**

**//console.log(data);**

**resolve(data);**

**} else {**

**var res = new Error('failed......');**

**reject(res);**

**}**

**});**

**var promise2 = function(data) {**

**var msg =data.name+ ' '+"address:" +data.address.state+","+data.address.zip ;**

**return Promise.resolve(msg);**

**}**

**var myFunc = function() {**

**//console.log("this is inside myFunc");**

**promise1**

**.then(promise2)**

**.then((data) => {**

**console.log(data);**

**})**

**.catch(err => {**

**console.log(err.message);**

**});**

**};**

**myFunc();**