**Test Driven Development - Frontend**

**1. Install Jest as a dev dependency in a new project and hands on with minimum 5 except methods, describe here:** [**https://jestjs.io/docs/en/expect**](https://jestjs.io/docs/en/expect)

Solution :

var sum = (a,b) =>{

return a+b;

}

const obj1 = {

a:2,

b:3

}

const obj2 = {

a:2,

b:3

}

const arr = ['Feel Pain', 'Accept Pain', 'Contemplate Pain', 'Know Pain'];

expect.extend({

toBeWithinRange(received, floor, ceiling) {

const pass = received >= floor && received <= ceiling;

if (pass) {

return {

message: () =>

` ${received} is within range ${floor} - ${ceiling}`,

pass: true,

};

} else {

return {

message: () =>

` ${received} is not within range ${floor} - ${ceiling}`,

pass: false,

};

}

},

})

test('check return value of sum function',()=>{

expect(sum(4,4)).toBe(8);

});

test('to check if within range or not',()=>{

expect(sum(4,6)).toBeWithinRange(5,20);

})

it('to check length of an array or string',()=>{

expect('mudit').toHaveLength(5);

})

test('check equality of 2 objects',()=>{

expect(obj1).toEqual(obj2)

})

test('check whether an array contains following subitem',()=>{

expect(arr).toContain('Know Pain');

})

**2. Setup Enzyme into a project created via create-react-app and use shallow and mount functions of it.**

Solution : uploading a file named todoreact.zip , find Login.test.js inside