Lab: Unittesting

Exercise 1: test the ContactNamePipe.

In this exercise, we would like to unittest our ContactNamePipe. To do this, let's start by running Karma:

```
npm test
```

Currently, Angular unittests don't work with PhantomJS yet, so Chrome will be used to execute the unittests.

Now create a unittest:

1. In src/app/contact-name/, create a new file called contact-name.pipe.spec.ts
2. Add the skeleton: a describe(), beforeEach() and it()

```
describe('Pipe: ContactName', () => {
    beforeEach(() => {

    });

    it('should concatenate a contact name', () => {

    });
});
```

3. In the beforeEach(), create a new instance of ContactNamePipe and store this in a variable that can be used inside the it() function.
4. Our ContactNamePipe has only one function, transform(). Call this function within it().
5. Define an expectation (expect()) of what the output should be depending on the input.

If all went well, your tests should now be succeeding.

Now write a couple more tests. What if data needs to be retrieved asynchronously and your ContactNamePipe receives undefined as input?