

## Lesson 1 Exercises - React Basics, JSX

**Recommended:** create a copy of react-basics.html to do these exercises.

- 1a. Using React, display a button on the website with the text “Good job!” inside the button.

Good job!

- 1b. Using React, display a paragraph with the text “My name is [NAME]” on the website (replace [NAME] with your name).

My name is Simon

Cotton socks

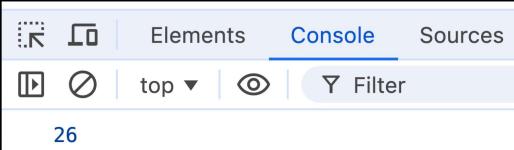
- 1c. Create the design on the right and display it on the website using React.

**Solutions in description**

Price: \$10

Add to Cart

- 1d. You buy 1 pack of socks for \$10 and 2 T-shirts for \$8 each. Using JavaScript, calculate the total cost of this order, save it in a variable named `productCost`, and display it in the Console.



- 1e. Continuing from 1d, insert the `productCost` variable into a paragraph element, create the design below, and display it on the website.

Product cost: \$\_\_

**Note:** replace \_\_ and insert the `productCost` variable.

**Solutions in description**

## Challenge Exercises

1f. Continuing from 1e, let's pretend the shipping cost is \$5. Save this in a variable named `shippingCost`, calculate the total cost using JavaScript (`productCost + shippingCost`), and display the results on the website using the design below:

Product cost: \$ A

Shipping cost: \$ B

Total cost: \$ C

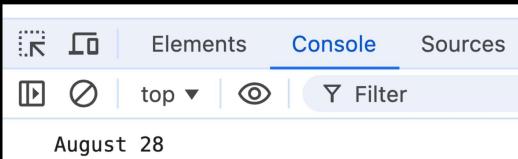
Place your order

**Note:** replace A and insert `productCost`,  
replace B and insert `shippingCost`,  
replace C and insert the total cost.

**Solutions in description**

1g. We're going to load the DayJS external library on the website (DayJS is an external library that helps us work with dates easier).

- To load DayJS, create a `<script>` above your code, and load the URL:  
`https://unpkg.com/supersimpledev/dayjs.js`
- After DayJS is loaded, use the code: `dayjs().format('MMMM D')` to get the current date. Display this result in the console.



1h. Continuing from 1g, insert the date in a paragraph element, and display it on the website in this format:

Today is August 28

**Solutions in description**

1i. Using DayJS, get the current time using `dayjs().format('HH:mm:ss')` and display it on the website in this format:

Current time: 21:39:28

1j. We'll create a clock. Continue from exercise 1i and do these steps:

- First, instead of doing `ReactDOM.createRoot(...).render(...)`; save the root in a variable `const root = ReactDOM.createRoot(...);` and then do `root.render(...)`;
- Use the JavaScript code: `setInterval(() => { ... }, 1000)`; (replace ... with some code and it will run this code every second).
- Inside `setInterval`, display the current time on the website using `root.render(...)`; (`setInterval` will run this code every second and this will create a clock).