

JavaScript For Web

Week 1, Tutorial 5 - Assignment 1, Exercise 3

Assignment 1, Exercise 3

In this assignment, you will practice how to use `if...else...` statements in an existing code base. Please read the question and follow the steps **carefully**.

Step 1

- create a html file named `exercise3.html` and copy&paste the following code into this file:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>exercise3</title>
</head>
<body>
  <label for="weather">Select the weather type today: </label>
  <select id="weather">
    <option value="">--Make a choice--</option>
    <option value="sunny">Sunny</option>
    <option value="rainy">Rainy</option>
    <option value="snowing">Snowing</option>
    <option value="overcast">Overcast</option>
  </select>
  <p></p>
  <script src="exercise3.js"></script>
</body>
</html>
```

Assignment 1, Exercise 3 continued

Step 2

- create a JS file named `exercise3.js` and copy&paste the following code into this file:

```
const select = document.querySelector("select")
const para = document.querySelector("p")

select.addEventListener("change", setWeather)

function setWeather() {
  const choice = select.value

  // Write the solution between these lines
  // =====

  // =====
}
```

Assignment 1, Exercise 3 continued

Step 3

- open the `exercise3.html` with chrome browser. You should see there is a text label stated `Select the weather type today` and a drop-down menu with options of weathers.
- You will write some code in `exercise3.js` and allow the webpage shows different context when user chooses different weathers.

Step 4

- The variable `choice` is declared as a string value for storing user's selection from the drop-down menu. The value could be `"sunny"`, `"rainy"`, `"snowing"`, `"overcast"` or an empty string(when user does not select any weather).
- Write some code **between two lines** in `exercise3.js` for the following requirements:
 1. if `choice` is `"sunny"`, the webpage should display: `It is nice and sunny outside today. Wear shorts! Go to the beach, or the park, and get an ice cream.`
 2. if `choice` is `"rainy"`, the webpage should display: `Rain is falling outside; take a rain coat and an umbrella, and don't stay out for too long.`
 3. if `choice` is `"snowing"`, the webpage should display: `The snow is coming down – it is freezing! Best to stay in with a cup of hot chocolate, or go build a snowman.`
 4. if `choice` is `"overcast"`, the webpage should display: `It isn't raining, but the sky is grey and gloomy; it could turn any minute, so take a rain coat just in case.`
 5. otherwise, nothing should be displayed on the webpage.

Assignment 1, Exercise 3 continued

Tips:

- To display the context on the webpage, you **should** assign a string value to `para.textContent`
- Please **do not change** other part of the code in both `exercise3.html` and `exercise3.js`
- Don't forget to open the browser inspector when you start develop a website/webpage all the time.

You will include `exercise3.js` to `assignment1.zip` and submit to Canvas later. You don't need to submit `exercise3.html`.

Don't go to the next page if you're working on this exercise.

Assignment 1, Exercise 3 Sample Solution

```
//exercise3.js

const select = document.querySelector("select");
const para = document.querySelector("p");

select.addEventListener("change", setWeather);

function setWeather() {
  const choice = select.value;

  if (choice === "sunny") {
    para.textContent =
      "It is nice and sunny outside today. Wear shorts! Go to the beach, or the park, and get an ice cream."
  } else if (choice === "rainy") {
    para.textContent =
      "Rain is falling outside; take a rain coat and an umbrella, and don't stay out for too long."
  } else if (choice === "snowing") {
    para.textContent =
      "The snow is coming down – it is freezing! Best to stay in with a cup of hot chocolate, or go build a snowman."
  } else if (choice === "overcast") {
    para.textContent =
      "It isn't raining, but the sky is grey and gloomy; it could turn any minute, so take a rain coat just in case."
  } else {
    para.textContent = ""
  }
}
```