Coding Activity 7.3

Insert Into DOM Activity

#### **Learning Outcome Addressed**

 9. Use JavaScript to dynamically display data on a web page

**Working With The DOM In JavaScript**

### Creating a TO-DO List

JavaScript allows you to manipulate the **DOM** to add, remove, or update any element on a web page.

In this activity, the browser displays a list of TO-DO items.

A user can add items to this list by typing in the input box and clicking on the Add button. Every time the button is clicked, the function addItem() is called.

**Your task is to implement the function addItem() that adds a new item to the list of TODOs.**

Check inside the insertDOM.js for stepwise instructions and hints to help you along the way.

Hint: You can use DOM methods to identify the existing elements on a page and create or append a new one.

Hint: You can reference the MDN documentation on appending elements to the DOM for some extra guidance: [*https://developer.mozilla.org/en-US/docs/Web/API/Node/appendChild*](https://developer.mozilla.org/en-US/docs/Web/API/Node/appendChild).

Note: Alternately, you can use a conditional if() statement inside the addItem() function to check if the user didn't type anything in the input box and display an alert indicating that they need to type in a value.

Task

Create a function called addItem which takes a user's input and appends it to the browser's DOM, displaying it as a to-do list item.

<!DOCTYPE html>

<html>

<head>

    <title>DOM Manipulation- Insert</title>

    <link rel="stylesheet" type="text/css" href="./style.css" />

</head>

<body>

    <div id="myDIV" class="header">

        <h2 style="margin:5px">My To Do List</h2>

        <input type="text" id="myInput" placeholder="Type a TODO list...">

        <span onclick="addItem()" id="addBtn">Add</span>

    </div>

    <ul id="myTODOs">

        <li>Write more JavaScript</li>

        <li class="checked">Make coffee</li>

        <li>Read JavaScript documentation</li>

        <li>Build awesome apps</li>

    </ul>

</body>

<script src="./insertDOM.js"></script>

</html>

function addItem() {

  // TODO: add 'item' to the list of TODOs

  //Step 1: identify the value of the myInput element.

  //Step 2: Create a text node containing that value

  //Step 3: Create a new li element and append the text node to it

  //Step 4: Append the li element to the existing myTODOs element.

}

//don't change this line

if (typeof module !== 'undefined') {

  module.exports = addItem;

}