Sure, here are some practical front-end jQuery code questions and answers that can help you understand how to use jQuery in different scenarios:

### 1. Question: How can you hide and show an element with a button click using jQuery?

\*\*Answer:\*\*

```html

<!DOCTYPE html>

<html>

<head>

<title>Hide/Show Example</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<button id="toggleButton">Toggle Element</button>

<div id="elementToToggle">This is a togglable element.</div>

<script>

$(document).ready(function(){

$("#toggleButton").click(function(){

$("#elementToToggle").toggle();

});

});

</script>

</body>

</html>

```

### 2. Question: How can you add a new list item to an unordered list using jQuery?

\*\*Answer:\*\*

```html

<!DOCTYPE html>

<html>

<head>

<title>Add List Item</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<ul id="myList">

<li>Item 1</li>

<li>Item 2</li>

</ul>

<button id="addItemButton">Add Item</button>

<script>

$(document).ready(function(){

$("#addItemButton").click(function(){

$("#myList").append("<li>New Item</li>");

});

});

</script>

</body>

</html>

```

### 3. Question: How can you change the text of a paragraph when a button is clicked using jQuery?

\*\*Answer:\*\*

```html

<!DOCTYPE html>

<html>

<head>

<title>Change Text Example</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<p id="textParagraph">This is the original text.</p>

<button id="changeTextButton">Change Text</button>

<script>

$(document).ready(function(){

$("#changeTextButton").click(function(){

$("#textParagraph").text("This is the new text.");

});

});

</script>

</body>

</html>

```

### 4. Question: How can you add a CSS class to an element on hover using jQuery?

\*\*Answer:\*\*

```html

<!DOCTYPE html>

<html>

<head>

<title>Hover Effect Example</title>

<style>

.highlight {

background-color: yellow;

}

</style>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<div id="hoverElement">Hover over me!</div>

<script>

$(document).ready(function(){

$("#hoverElement").hover(

function() {

$(this).addClass("highlight");

}, function() {

$(this).removeClass("highlight");

}

);

});

</script>

</body>

</html>

```

### 5. Question: How can you make an AJAX GET request and display the response in a div using jQuery?

\*\*Answer:\*\*

```html

<!DOCTYPE html>

<html>

<head>

<title>AJAX Request Example</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

</head>

<body>

<button id="loadDataButton">Load Data</button>

<div id="dataContainer"></div>

<script>

$(document).ready(function(){

$("#loadDataButton").click(function(){

$.ajax({

url: "https://jsonplaceholder.typicode.com/posts/1",

type: "GET",

success: function(response) {

$("#dataContainer").html(

"<h3>" + response.title + "</h3><p>" + response.body + "</p>"

);

}

});

});

});

</script>

</body>

</html>

```

These examples cover a variety of common jQuery tasks, including DOM manipulation, event handling, and AJAX requests.

Sure, here are some practical front-end JavaScript code questions along with their answers:

### Question 1: How to manipulate the DOM to change the text content of an HTML element?

#### Question:

You have an HTML element with the ID `greeting`. Write a JavaScript function to change the text content of this element to "Hello, World!".

#### Answer:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>DOM Manipulation</title>

</head>

<body>

<div id="greeting">Welcome!</div>

<script>

function changeGreeting() {

const greetingElement = document.getElementById('greeting');

greetingElement.textContent = 'Hello, World!';

}

// Call the function to change the greeting text

changeGreeting();

</script>

</body>

</html>

```

### Question 2: How to add an event listener to a button?

#### Question:

You have a button with the ID `myButton`. Write JavaScript code to display an alert with the message "Button clicked!" when the button is clicked.

#### Answer:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Event Listener</title>

</head>

<body>

<button id="myButton">Click Me!</button>

<script>

const button = document.getElementById('myButton');

button.addEventListener('click', function() {

alert('Button clicked!');

});

</script>

</body>

</html>

```

### Question 3: How to create a simple form validation?

#### Question:

You have a form with an input field and a submit button. The form should alert "Please enter your name" if the input field is empty when the submit button is clicked. Otherwise, it should alert "Form submitted".

#### Answer:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Form Validation</title>

</head>

<body>

<form id="myForm">

<input type="text" id="nameInput" placeholder="Enter your name">

<button type="submit">Submit</button>

</form>

<script>

document.getElementById('myForm').addEventListener('submit', function(event) {

event.preventDefault(); // Prevent form from submitting

const nameInput = document.getElementById('nameInput').value.trim();

if (nameInput === '') {

alert('Please enter your name');

} else {

alert('Form submitted');

}

});

</script>

</body>

</html>

```

### Question 4: How to dynamically create and append a new element to the DOM?

#### Question:

Write a JavaScript function that creates a new `p` element with the text "This is a new paragraph" and appends it to a div with the ID `content`.

#### Answer:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Append Element</title>

</head>

<body>

<div id="content"></div>

<script>

function addParagraph() {

const contentDiv = document.getElementById('content');

const newParagraph = document.createElement('p');

newParagraph.textContent = 'This is a new paragraph';

contentDiv.appendChild(newParagraph);

}

// Call the function to add the paragraph

addParagraph();

</script>

</body>

</html>

```

### Question 5: How to use JavaScript to toggle a class on an element?

#### Question:

You have a div with the ID `box`. Write JavaScript code to toggle the class `highlight` on this div when a button with the ID `toggleButton` is clicked.

#### Answer:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Toggle Class</title>

<style>

.highlight {

background-color: yellow;

}

</style>

</head>

<body>

<div id="box">This is a box</div>

<button id="toggleButton">Toggle Highlight</button>

<script>

const toggleButton = document.getElementById('toggleButton');

const box = document.getElementById('box');

toggleButton.addEventListener('click', function() {

box.classList.toggle('highlight');

});

</script>

</body>

</html>

```

These questions and answers cover fundamental JavaScript concepts such as DOM manipulation, event handling, form validation, creating and appending elements, and toggling classes.