

Module 5: Advanced JavaScript: Arrays, Functions, Scopes, and Modules

Practice Activity 5.5: Using apply(), call(), and bind() within functions in JavaScript [30 minutes]

Activity 1: Using the call() Method

```
const personA = {
  firstName: "John",
  lastName: "Doe",
  fullName: function () {
    return this.firstName + " " + this.lastName;
  }
};

const personB = {
  firstName: "Jane",
  lastName: "Doe"
};

// Use the call() method to borrow the fullName method from the first object and
// apply it to the second object
const fullNameOfPersonB = personA.fullName.call(personB);

// Displaying the result
console.log(fullNameOfPersonB); // Output: Jane Doe
```

Activity 2: Using the bind() Method

```
<button id="myButton">Click me!</button>
<script>
  function handleClick(message) {
    alert(message);
  }

  // Get the button element by its id
  const myButton = document.getElementById("myButton");

  // Use bind to create a new function 'boundClickHandler' with a specific
  context
  const boundClickHandler = handleClick.bind(myButton, "Button clicked!");

  // Add the bound function as a click event listener
  myButton.addEventListener("click", boundClickHandler);
</script>
```

