ANSWER 3 -

Certainly! Here's a simplified explanation of the call, apply, and bind methods and their differences:

call: The call method is used to invoke a function with a specified this value and individual arguments passed one by one. It allows you to call a function and explicitly set the value of this for that function. Example:

```
function greet(name) {
  console.log(`Hello, ${name}!`);
}
greet.call(null, "John");
```

In this example, call is used to invoke the greet function and pass "John" as the name argument. The first argument (null in this case) sets the this value inside the function (if the function doesn't rely on the this context, any value can be used).

apply: The apply method is similar to call, but it accepts arguments as an array or an array-like object instead of individual arguments. It allows you to call a function and explicitly set the value of this, along with passing an array of arguments. Example:

```
function greet(name) {
  console.log(`Hello, ${name}!`);
}
greet.apply(null, ["John"]);
```

In this example, apply is used to invoke the greet function and pass ["John"] as the array of arguments. The first argument (null in this case) sets the this value inside the function.

bind: The bind method creates a new function with a specified this value and partially applied arguments. It doesn't immediately invoke the function but returns a new function that you can invoke later. Example:

```
function greet(name) {
  console.log(`Hello, ${name}!`);
}

const greetJohn = greet.bind(null, "John");
greetJohn();
```

In this example, bind is used to create a new function greetJohn that has the this value set to null and the name argument set to "John". The greetJohn function can be invoked later to execute the original greet function with the specified this value and arguments.

The main difference between call and apply lies in how arguments are passed to the function: call takes individual arguments, while apply takes an array of arguments. On the other hand, bind creates a new function with the specified this value and partially applied arguments, without immediately executing it.

In summary, call and apply are used to invoke a function with a specific this value and arguments, while bind is used to create a new function with a specific this value and partially applied arguments.