**Task1**

Definition and Usage

The data-\* attribute is used to store custom data private to the page or application.

The data-\* attribute gives us the ability to embed custom data attributes on all HTML elements.

The stored (custom) data can then be used in the page's JavaScript to create a more engaging user experience (without any Ajax calls or server-side database queries)

The data-\* attribute consist of two parts:

1. The attribute name should not contain any uppercase letters, and must be at least one character long after the prefix "data-"
2. The attribute value can be any string

Eg. data-key

In JavaScript, the **this** value refers to the context in which a function is called and provides access to the object on which the function is invoked. The specific value of **this** depends on how the function is called.

Normal Functions:

* Normal functions have their own **this** value, which is determined by how the function is called.

const person = {

name: 'John',

greet: function() {

console.log(`Hello, my name is ${this.name}.`);

}

};

person.greet(); // Output: Hello, my name is John.

Arrow Functions:

* Arrow functions have a lexical **this** value, meaning that the value of **this** is inherited from the surrounding scope.

const person = {

name: 'John',

greet: function() {

setTimeout(() => {

console.log(`Hello, my name is ${this.name}.`);

}, 1000);

}

};

person.greet(); // Output: Hello, my name is John.

**Task 2**

