Explaining How HTML, CSS, and JavaScript Work Together

1. HTML (HyperText Markup Language)

HTML is the backbone of a webpage, defining its structure and content. In the given code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <title>Document</title>
</head>
<body class="body">
  <h1 class="heading">MY FIRST WEBSITE</h1>
  <script src="script.js"></script>
</body>
</html>
```

- <!DOCTYPE html>: Declares that the document is an HTML5 file.
- <html lang="en">: Defines the HTML document and sets the language to English.
- <head> section:
  o <meta charset="UTF-8">: Ensures support for all characters.
  o <meta name="viewport" content="width=device-width, initial-scale=1.0">: Makes the website responsive.
  o <link rel="stylesheet" href="style.css">: Links the external CSS file.
  o <title>Document</title>: Sets the page title.
- <body> section:
  o <h1 class="heading">MY FIRST WEBSITE</h1>: Displays a heading styled with CSS.
  o <script src="script.js"></script>: Links an external JavaScript file.

2. CSS (Cascading Style Sheets)

CSS is used to style the webpage, making it visually appealing. The provided CSS file:

```
.heading{
  color: rgb(255, 255, 255); /* Sets the text color to white */
```

```
}
.body{
  background-color: aqua; /* Sets the background color to aqua */
}
```

- .heading: Targets the <h1> tag and sets the text color to white.
- .body: Targets the <body> tag and sets the background color to aqua.

3. JavaScript (JS)

JavaScript adds interactivity to the webpage. The provided JS file:

```
alert("my first website created successfully");
```

- alert("my first website created successfully"); displays a pop-up message when the page loads.

4. How They Work Together

- **HTML** structures the webpage.
- **CSS** styles it for a better user experience.
- **JavaScript** adds interactivity.

When the webpage loads:

1. HTML displays the heading "MY FIRST WEBSITE".
2. CSS styles it by making the background aqua and heading white.
3. JavaScript triggers an alert popup saying "my first website created successfully".

This is the basic way of connecting HTML, CSS, and JS to build interactive web pages!