# Explanation

1. `const button = document.querySelector("button");`

This line selects the first button element in the HTML document and stores it in a variable named `button`. The `document.querySelector()` method is used to find an element in the HTML based on a specified selector (in this case, "button").

2. `const body = document.querySelector("body");`

This line selects the `<body>` element of the HTML document and stores it in a variable named `body`.

3. `const color = ['red', 'green', 'blue', 'yellow', 'pink', 'purple'];`

This line creates an array named `color` containing six color names as elements.

4. `body.style.background = 'violet';`

This line sets the background color of the `<body>` element to 'violet' initially. So, when the page loads, the background color will be violet.

5. `button.addEventListener('click', changeB);`

This line adds an event listener to the `button` element. It listens for a click event on the button and calls the function `changeB` when the click happens.

6. `function changeB() { ... }`

This is the `changeB` function that will be executed when the button is clicked. Inside this function:

7. `const colorIndex = Math.floor(Math.random() \* color.length);`

This line generates a random number between 0 and the length of the `color` array (which is 6) and stores it in the `colorIndex` variable. `Math.random()` generates a random number between 0 (inclusive) and 1 (exclusive), and then by multiplying it by `color.length`, we get a random number between 0 and 5. `Math.floor()` is used to round down the number to the nearest integer.

8. `body.style.background = color[colorIndex];`

This line changes the background color of the `<body>` element to the color at the index specified by `colorIndex` in the `color` array. Since `colorIndex` is a random number between 0 and 5, it will pick a random color from the `color` array and set it as the background color of the `<body>`.

So, when you click the button, the `changeB` function is called, and it randomly selects a color from the `color` array and sets it as the background color of the `<body>` element. This way, every time you click the button, the background color of the page will change to a different random color from the predefined list.