

9.Javascript Events

Q1. What are JavaScript events? Explain the role of event listeners.

JavaScript events are actions or activities that happen inside a webpage. These actions can be done by the user (like clicking a button, pressing a key, moving the mouse) or by the browser itself (like page loading). When an event happens, we can run some JavaScript code in response to it.

To handle these events, we use event listeners. An event listener “listens” for a specific action and then performs a task when that action occurs. This helps make web pages interactive and user-friendly.

Example actions:

- Click → mouse click on a button
 - Keypress → user presses a keyboard key
 - Load → page fully loads
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Q2. How does the addEventListener() method work in JavaScript? Provide an example.

The `addEventListener()` method is used to connect an event with a function. This function runs whenever the event happens. It is a modern and preferred way to handle events in JavaScript.

Syntax:

```
element.addEventListener("eventName", function);
```

It allows us to attach multiple events to the same element without overwriting previous code.

Example:

```
button.addEventListener("click", function() {  
    alert("Button clicked!");  
});
```

This means when the button is clicked, the function will run and show the alert.