

Question 1: What are JavaScript events? Explain the role of event listeners.

Answer:

JavaScript events are **actions or activities** that happen on a webpage.

Examples of events:

- Clicking a button
- Typing in a box
- Moving the mouse
- Loading a webpage
- Pressing a key

JavaScript can detect these events and perform some action.

Role of Event Listeners

An event listener is a function that **waits for the event to happen**, and then runs some code.

Example:

- User clicks a button → event listener runs the function
- User types something → event listener responds

Event listeners help webpages become **interactive**.

New Easy Example:

```
document.addEventListener("click", function() {  
    console.log("Page clicked!");  
});
```

Question 2: How does the addEventListener() method work? Provide an example.

Answer:

addEventListener() is used to **attach an event** to an HTML element.

Syntax:

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

- "click" → event
- "mouseover" → event
- "keyup" → event

New Example:

```
let btn = document.getElementById("myBtn");
```

```
btn.addEventListener("mouseover", function() {  
    console.log("Mouse is over the button!");  
});
```