UNIT 4 – DIALOG BOX AND EVENTS

1. Dialog Boxes

In JavaScript, dialog boxes are commonly used to interact with users, display messages, or prompt for input within a web application. There are several types of dialog boxes available in JavaScript:

1.2 Alert Dialog Box

- An alert box is often used if you want to make sure information comes through to the user.
- When an alert box pops up, the user will have to click "OK" to proceed.

Syntax

```
window.alert("sometext");
```

The window.alert() method can be written without the window prefix.

Example

Output



1.3 Confirm Dialog Box

- A confirm box is often used if you want the user to verify or accept something.
- When a confirm box pops up, the user will have to click either "OK" or "Cancel" to proceed.
- If the user clicks "OK", the box returns true. If the user clicks "Cancel", the box returns false.

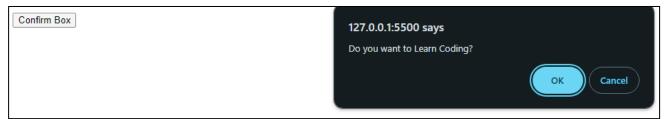
Syntax

```
window.confirm("sometext");
```

• The window.confirm() method can be written without the window prefix.

Example

Output



1.4 Prompt Dialog Box

- A prompt box is often used if you want the user to input a value before entering a page.
- When a prompt box pops up, the user will have to click either "OK" or "Cancel" to proceed after entering an input value.
- If the user clicks "OK" the box returns the input value. If the user clicks "Cancel" the box returns null.

Syntax

```
window.prompt("sometext","defaultText");
```

• The window.prompt() method can be written without the window prefix.

Example

Output



2. JavaScript Events

- In JavaScript, events are actions or occurrences that happen in the system, triggered by users or the system itself.
- Events can be anything from a user clicking the mouse, pressing a key, resizing a window, or the system loading a web page.
- Handling events is a crucial aspect of web development as it allows developers to create interactive and dynamic user experiences. Here's an overview of events in JavaScript:

Event Handlers:

• Event handlers are functions that execute in response to a specific event occurring. In HTML, event handlers can be specified directly as attributes on HTML elements:

```
<button onclick="handleClick()">Click me</button>
```

Or, they can be assigned using JavaScript:

```
document.getElementById("myButton").onclick = function() {
    // Handle click event
};
```

Event Listeners:

- Event listeners are preferred over inline event handlers for better separation of concerns and maintainability.
- They allow attaching multiple event handlers to the same element and provide more flexibility:

```
document.getElementById("myButton").addEventListener("click", function() {
    // Handle click event
});
```

Common DOM Events:

There are numerous events in JavaScript that you can handle. Some common ones include:

- Mouse Events: click, mouseover, mouseout, mousemove, mousedown, mouseup, etc.
- **Keyboard Events**: keydown, keyup, keypress
- Form Events: submit, change, focus, blur
- Window Events: load, resize, scroll, unload
- Document Events: DOMContentLoaded, readystatechange
- Touch Events: touchstart, touchmove, touchend

2.1 onelick

This is a mouse event and provokes any logic defined if the user clicks on the element it is bound to.

Example: In this example, we will display a message in the alert box when the button is clicked

```
<html>
<head>

<script>
function onclickdemo() {
 alert("This is On Click Demo");
}
</script>
</head>
<body>
<input type="button" value="On Click" onClick="onclickdemo()" />
</body>
</html>
```

```
On Click

127.0.0.1:5500 says

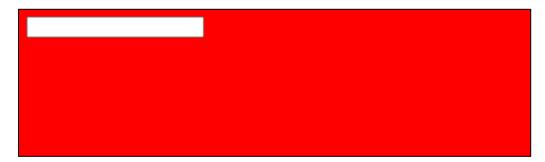
This is On Click Demo
```

2.2 onmouse over

This event corresponds to hovering the mouse pointer over the element and its children, to which it is bound to.

Example: In this example, we will make the box vanish when the mouse will be hovered on it

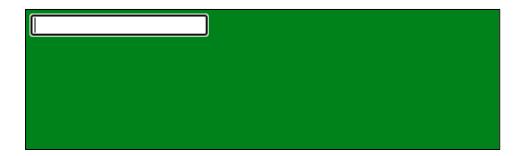
Output



2.3 on mouse out

Whenever the mouse cursor leaves the element which handles a mouseout event, a function associated with it is executed.

Example:



2.4 onkeypress

The onkeypress event occurs when the user **presses a key** on the keyboard.

Example:

Output



2.5 onkeydown

The onkeydown event occurs when the user **presses a key** on the keyboard.

Example:

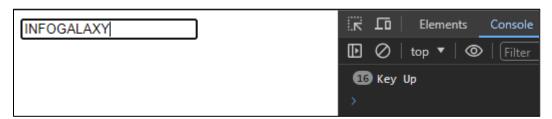


2.6 onkeyup

This event is a keyboard event and executes instructions whenever a key is released after pressing.

Example: In this example, we will change the color by pressing UP arrow key

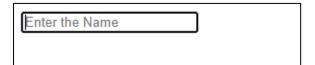
Output



2.7 onfocus

This Javascript function performs when the given instruction receives the focus as per the change or click event. The below code snippet can help you understand the logic.

Example:



2.8 onload

onload event can be utilized when we have a specific requirement to execute a specific function once the page is represented fully. The below code snippet can help you understand the logic.

Example:

Output



2.9 onunload

The onunload event occurs once a page has unloaded (or the browser window has been closed).

Example:

2.10 onblur

Onblur event triggers when a certain object loses focus. We can execute the below code to understand how to implement it.

Example:

Output



2.11 onsubmit

The onsubmit event occurs when a form is submitted.

Example:

