## **Cheatsheet: Introduction to JavaScript Development**

```
JavaScript Tag and
                                   Description
                                                                                                          Code Example
    Terminologies
                                                               1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
                       Used to include the required
                                                               1.
                       JavaScript code in your HTML
                                                                  <body>
<script>
                                                                       document.
                                                               З.
                                                                       <script>
                                                                           document.getElementById('showname').innerHTML='Peter';
                                                               6. </body>
                                                             Copied!
                                                               1. 1
                       Used to link the required JavaScript
                                                               1. <script src="script.js"></script>
<script src>
                       files in your HTML document.
                                                             Copied!
                                                               1. 1
                       var is a keyword used to declare
                                                               1. var num1=10;
var
                       variables.
                                                               var num2=11;
                                                             Copied!
                                                               1. 1
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4. 4
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                                                              18. 18
19. 19
                                                              20. 20
                       var has functional scope, allowing
                                                              1.
2.
                                                                  <!DOCTYPE html>
var & Scope
                       variable to be accessed within
                                                                  <html lang="en">
                       function only.
                                                               3.
                                                                       <meta charset="UTF-8">
                                                                       <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                               6.
7.
                                                                       <title>Document</title>
                                                               8.
                                                                  </head>
                                                               9.
                                                              10. <body>
                                                              11.
                                                                       12.
                                                                       <script>
                                                                           function show() {
   var name = 'Peter';
                                                              13.
                                                              14.
                                                                               document.getElementById('showname').innerHTML = name;
                                                              15.
                                                              16.
                                                                       </script>
                                                              19.
                                                              20. </html>
                                                             Copied!
                                                               1. 1
2. 2
                       let is a keyword used to declare

    let num1=20;

let
                       variables.
                                                               let num2=21;
                                                             Copied!
                                                               1. 1
let & Scope
                       let has block scope, allowing the
                                                               2. 2
3. 3
                       variable to be limited to the block,
                       statement, or expression in which it
                                                               4.
                       is defined, preventing redeclaration
                       within the same scope.
                                                               7. 7
8. 8
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                                                              10. 10
```

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14. 14
                                                               15. 15
                                                              16. 16
17. 17
                                                               18. 18
                                                               19. 19
                                                               20. 20
                                                                1. <!DOCTYPE html>
                                                                2. <html lang="en">
                                                                3.
                                                                4.
                                                                       <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                                5.
                                                                6.
7.
                                                                       <title>Document</title>
                                                                8. </head>
                                                                9.
                                                               10.
                                                                   <body>
                                                                        11.
                                                               12.
                                                                        <script>
                                                               13.
                                                                                let emailId = 'test@example.com';
                                                               14.
                                                                                document.getElementById('showemail').innerHTML = emailId;
                                                               15.
                                                               17.
                                                                       </script>
                                                               18. </body>
                                                               19.
                                                               20. </html>
                                                              Copied!
                                                                1. 1
2. 2
                       const is a keyword used to declare

    const employeeId=120;

const
                        variables.
                                                                2. cont employeeId=121;
                                                              Copied!
                                                                1. 1
2. 2
3. 3
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                                                                6. 6
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                                                               10. 10
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                                                              13. 13
14. 14
15. 15
                                                               16. 16
                                                               18. 18
                                                               19. 19
                                                               20. 20
                        It creates a constant whose value
                                                                1. <!DOCTYPE html>
const & Scope
                       cannot be reassigned or redeclared.
                                                                2.
                                                                   <html lang="en">
                                                                3.
4.
                                                                   <head>
                                                                        <meta charset="UTF-8">
                                                                5.
                                                                        <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                                6.
                                                                        <title>Document</title>
                                                                8.
                                                                9.
                                                               10. <body>
                                                                        11.
                                                                       <script>
                                                               12.
                                                               13.
                                                               14.
                                                                                 const employeeId = 120';
                                                                                document.getElementById('showeEId').innerHTML = employeeId;
                                                               15.
                                                               16.
                                                                       </script>
                                                               17.
                                                               18. </body>
                                                               19.
                                                               20. </html>
                                                              Copied!
Arithmetic Operators Arithmetic operators perform
                                                                2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. 8
                       mathematical calculations like
                        addition, subtraction, multiplication,
                       division and modulus.
                                                                9.9
                                                               10. 10
                                                               11. 11
                                                               12. 12
                                                               1. let x = 15;
2. let y = 3;
```

12. 12

```
3. let sum = x + y; // Addition
4. console.log(sum) //the answer is 8
                                                                      5. let difference = x - y; // Subtraction
                                                                      6. console.log(difference) //the answer is 2
                                                                      7. let product = x * y; // Multiplication 8. console.log(product) //the answer is 8
                                                                     9. let quotient = x / y; // Division
10. console.log(quotient) //the answer is 8
11. let remainder = x % y; // Modulus
                                                                     12. console.log(remainder) //the answer is 0
                                                                    Copied!
                                                                      1. 1
                                                                      2. 2
                                                                      3. 3
                                                                      4. 4
                                                                      5.5
                                                                      6.6
                          Comparison operators compare
Comparison
                                                                      1. let a = 5;
                          values and return true/false based on
                                                                      2. let b = 7;
Operators
                          the comparison.

    let b = 7,
    let isEqual = a == b; // Equality
    let isNotEqual = a != b; // Inequality

                                                                      5. let isStrictEqual = a === b; // Strict equality
6. let isGreaterThan = a > b; // Greater than
                                                                    Copied!
                                                                      1. 1
                                                                      2. 2 3. 3
                                                                      4.
                                                                         4
                          Logical operators combine multiple

    let hasPermission = true;

Logical Operators
                          conditions and return a boolean
                                                                      2. let isMember = false;
                          result.
                                                                      3. let canAccessResource = hasPermission && isMember; // Logical AND
                                                                      4. let canViewPage = hasPermission || isMember; // Logical OR
                                                                      5. let isDenied = !hasPermission; // Logical NOT
                                                                    Copied!
                                                                      1. 1
                                                                      2. 2
Assignment
                          Assignment operators assign values
                                                                      1. let x = 10; // Assigns the value 10 to the variable x
Operators
                          to variables. For example, =, +=, -=.
                                                                      2. x += 5; // Equivalent to x = x + 5
                                                                      3. x = 5; //Equivalent to x = x + 5
                                                                    Copied!
                                                                      1. 1
2. 2
                                                                      3. 3
                          Unary operators act on a single

    let count = 5;
    count++; // Increment count by 1 (count is now 6)
    count--; // Decrement count by 1 (count is now 5 again)

Unary Operators
                          operand, performing operations like
                          negation or incrementing.
                                                                    Copied!
                                                                      1. 1
                                                                      2. 2
                                                                      3. 3
                                                                      4. 4
                          typeof operator returns the data type
                                                                      1. let num1 = 42;
typeof Operator
                          of a variable or expression as a
                                                                      2. console.log(typeof(num1)); //the awnswer is Number
3. let name = 'John';
                          string.
                                                                      4. console.log(typeof(name)); //the awnswer is String
                                                                    Copied!
                                                                      1. 1
                                                                      2. 2
3. 3
                                                                      4. 4
                                                                         5
                                                                      5.
                          The if statement is used to execute a
                                                                      1. let age = 25;
if Statement
                          piece of block code if the given
                                                                      2. if (age >= 18) {
                          condition is true.
                                                                      console.log("You are an adult.");
                                                                      4. } else {
                                                                      5. console.log("You are a minor.");
                                                                      6. }
                                                                    Copied!
else if Statement
                          It allows you to test multiple
                                                                      1. 1
                                                                      2. 2
                          conditions sequentially. If the
                                                                      3.3
                          condition is true then it will execute
                          if statement block otherwise execute
                          else statement block.
                                                                      9.9
                                                                     10. 10
```

```
12. 12
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 30. 30
 31. 31
  1. <!DOCTYPE html>
  2. <html lang="en">
  3.
  4. <head>
  5.
          <meta charset="UTF-8">
  6.
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
 7. <tit
8. </head>
          <title>Document</title>
  9.
 10. <body>
          11.
 12.
          <script>
 13.
              let Seasonmonth = 'March to May';
 14.
              if (Seasonmonth == 'March to May') {
    document.getElementById("seasonmessage") = 'It is spring season';
 15.
 16.
 17.
 18.
              else if (Seasonmonth == 'June to August') {
 19.
                  document.getElementById("seasonmessage") ='It is summer season';
 20.
 21.
              lse if (Seasonmonth =='September to November') {
    document.getElementById("seasonmessage") = 'It is autumn season';
 22.
 23.
 24.
 25.
                  document.getElementById("seasonmessage") = 'It is winter season';
 26.
              }
 27.
          </script>
 28.
 29. </body>
 30.
 31. </html>
Copied!
  1. 1
  2. 2
  3. 3
  4. 4
5. 5
  6. 6
  7. 7
  9.9
 10. 10
 11. 11
 12. 12
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 14. 14
 15. 15
 16. 16

    const temperature = 30;

  2. const isRaining = true;
  3.
  4. if (temperature > 30) {
       if (isRaining) {
  console.log("It's hot and raining. Stay inside.");
  5.
  6.
  7.
       } else {
  8.
          console.log("It's hot, but not raining. Enjoy the sunshine.");
  9.
 10. } else {
       if (isRaining) {
  console.log("It's not so hot, but it's raining. Take an umbrella.");
 11.
 12.
 13.
          console.log("It's not hot, and it's not raining. Have a nice day.");
 15.
 16. }
Copied!
  1. 1
  2. 2 3. 3
  4.
  5. 5
  6.6
  7. 7
8. 8
```

Nested if else Statement This statement allows you to test multiple conditions and execute different blocks of code based on the results of those conditions.

switch Statement

The switch statement is used for multiple conditional branches, allowing the execution of different code blocks based on the value of an expression.

```
9. 9
                                       10. 10
                                       11. 11

    let month = "December";

                                        2. switch (day) {
                                        3.
                                                case "December":
                                        4.
                                                    console.log("It's Christmas month.");
                                        5.
                                                break;
case "November":
                                        6.
                                                    console.log("It's Thanksgiving month");
                                        7.
                                        8.
                                                    break:
                                        9.
                                                default:
                                       10.
                                                    console.log("It's a regular month.");
                                       11. }
                                      Copied!
                                        1. 1
                                        2. 2
The ternary operator is the simplest
                                        1. let age = 20;
way to write conditional statements
                                        2. let canVote = age >= 18 ? "Yes" : "No";
                                      Copied!
                                        1. 1
                                        2. 2
A for loop is a control structure that
                                        3.3
allows to execute a block of code
                                        1. for (let i = 1; i <= 5; i++) {
repeatedly for a specified number of
                                                console.log(i);
times until a particular condition is
                                        3. }
                                      Copied!
                                        1. 1
2. 2
3. 3
                                        4. 4
                                        6.
                                           6
                                        7. 7
8. 8
A while loop is a control structure
that allows to execute a block of

    let limit = 50;

code repeatedly as long as a
                                        2. let a = 0;
3. let b = 1;
specified condition is true.
                                        4. while (a <= limit) {
                                                console.log(a);
                                        6.
                                                let temp = a + b;
                                        7.
8.
                                                a = b;
b = temp;
                                        9. }
                                      Copied!
                                        1. 1
                                        3. 3
A "do...while" loop in allows you to
execute a block of code repeatedly
                                        6.6
as long as a specified condition is
                                        1. let roll = 1;
true and guarantees that the code
block will execute at least once,
                                        3. do {
even if the condition is initially
                                                console.log("Rolled a " + roll);
                                        4.
                                        5.
                                                roll++:
                                        6. } while (roll < 7);</pre>
                                      Copied!
                                        1. 1
                                        3. 3
                                        4. 4
Function is a reusable block of code
                                        1. function sayHello() {
that can be defined and executed as
                                        console.log("Hello!");
                                        3. } //function declaration
                                        4. sayHello(); //function call
                                      Copied!
                                        1. 1
2. 2
3. 3
The functions that do not require
any parameters to operate.
                                        4.
                                        5. 5
                                        7. 7
                                        1. function greet() {
2. const greeting = "Hello, World!";
                                              console.log(greeting);
                                        4. }
                                        5.
                                        6. // Call the non-parameterized function
                                        7. greet(); // This will print "Hello, World!" to the console
```

**Ternary Operator** 

for loop

While loop

do while loop

**Function Declaration** 

Non-Parameterized

and Call

**Functions** 

such as if else condition.

met.

wrong.

many times as needed.

```
1. 1
                                                              3. 3
                                                              4. 4
                                                              5. 5
6. 6
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13. 13
                                                             14. 14
                                                             15. 15
                       The function that accepts one or
                                                             17. 17
                       more values that provide input data
                                                             18. 18
                       for the function to work with. These
Parameterized
                                                                 <!DOCTYPE html>
                       values in the function's declaration
Functions
                                                              2.
                                                                 <html lang="en">
                       called parameters, and during
                                                              3.
4.
                       calling of the function called
                                                                 <head>
                       arguments.
                                                                      <meta charset="UTF-8">
                                                              5.
                                                              6.
                                                                      <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                                      <title>Document</title>
                                                              8.
                                                                 </head>
                                                              9.
                                                                 <body>
                                                                      10.
                                                             11.
                                                                      <script>
                                                                          function add(a, b) {
                                                             12.
                                                             13.
                                                                              return a + b;
                                                             14.
                                                             15.
                                                                          document.getElementById('functiondata1').innerHTML = add(3, 4);
                                                             16.
                                                                     </script>
                                                             17. </body>
                                                             18. </html>
                                                            Copied!
                                                              1. 1
2. 2
                                                              3. 3
                                                              4.
                                                                 4
                                                              5.
                                                                 5
                                                              6.
                       The functions with a specific name
                                                              1.
                                                                     const add = function(a, b) {
Named Function
                       that can be called by that name.
                                                              2.
                                                                          console.log(a+b);
                                                              з.
                                                              4.
                                                                     //name of the function is add
                                                              5.
                                                              6.
                                                                     add(2, 3);
                                                            Copied!
                                                              1. 1
                       Immediately Invoked Function
                                                              3. 3
                       Expression is a function in
HFE
                                                              1. (function sayWelcome() {
                       JavaScript that's defined and
                                                                   console.log("Welcome!");
                       executed immediately after its
                                                              3. })();
                       creation.
                                                            Copied!
                                                              1. 1
                                                              2. 2
                       Arrow functions in JavaScript are a
                                                              1. const arrowFunc = (a, b) \Rightarrow a + b;
Arrow Function
                       concise way to write function
                                                              2. console.log(arrowFunc(5, 3));
                       expressions, using the => syntax.
                                                            Copied!
return
                       The return statement in JavaScript is
                       used to end the execution of a
                                                              3. 3
4. 4
5. 5
                       function and specify the value that
                       the function should return to the
                       caller.
                                                              6.
                                                              7. 7
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                                                             14. 14
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                                                             16. 16
                                                             17. 17
                                                              1. <!DOCTYPE html>
                                                              2. <html
3. <head>
                                                                 <html lang="en">
                                                              4.
                                                                      <meta charset="UTF-8">
                                                                      <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                              5.
```

6.

<title>Document</title>

Copied!

```
8. <body>
                                                              9.
                                                                      10.
                                                                      <script>
                                                             11.
                                                                          function multiply(message) {
                                                             12.
                                                                              return message; // Returns the product of a and b
                                                             13.
                                                             14.
                                                                          document.getElementById('showmessage').innerHTML = multiply('Hard work is the key');
                                                             15.
                                                             16. </body>
                                                             17. </html>
                                                            Copied!
                                                              1. 1
                                                              2. 2
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                       A function closure in JavaScript
                                                             11. 11
                       allows a function to access and
                                                                 function outerFunction() {
  const outerVar = "I am from the outer function";
Function Closure
                       remember variables from its outer
                                                              1.
                                                              2.
                       scope even after that scope has
                                                              3.
                                                                   function innerFunction() {
                       finished executing.
                                                                     console.log(outerVar); // innerFunction can access outerVar
                                                              6.
                                                              7.
                                                                   return innerFunction;
                                                              8. }
                                                              9.

    const closure = outerFunction();
    closure(); // This will log "I am from the outer function"

                                                            Copied!
                                                              1. 1
                                                              2.
                                                                 2
                                                              3.
                                                                 3
                       Function hoisting means that
                                                              4.
                                                              5.5
                       function declarations are moved to
                       the top of their containing scope
                                                              1. sayHello(); // This works even though the function is called before it's declared
Function Hoisting
                       during the compile phase, allowing
                                                              3. function sayHello() {
                       them to be used before they are
                                                                   console.log("Hello!");
                                                              4.
                       declared in the code.
                                                            Copied!
                                                              1. 1
                                                              2. 2
                                                              3. 3
Function Hoisting for Function expressions where a
                                                              4.
                                                              1. greet(); // This will result in an error
                       function is assigned to a variable do
function expression
                                                              2. const greet = function() {
3. console.log("Greetings!");
                       not exhibit hoisting behaviour.
                                                              4. };
                                                            Copied!
                                                              1. 1
addEventListener
                       addEventListener is a JavaScript
                                                              2. 2
                       method used to assign a function to
                                                              3. 3
                       execute when a specific event
                                                              4.
                       occurs on an element in the DOM.
                                                                 6
                                                              7. 7
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                                                             20. 20
                                                              1. <!DOCTYPE html>
                                                              2.
                                                                 <html lang="en">
                                                              3.
                                                                 <head>
                                                                      <meta charset="UTF-8">
                                                              4.
                                                                      <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                              5.
                                                                      <title>Document</title>
                                                              6.
                                                                 </head>
                                                              8.
                                                              9.
                                                                      <button id="btn">Click Me</button>
                                                             10.
                                                             11.
                                                                      <script>
                                                                          // Get the element by its ID
                                                             12.
                                                                          const button = document.getElementById('btn');
                                                             13.
```

7. </head>

```
// Add an event listener for the 'click' event
                                      14.
                                      15.
                                                    button.addEventListener('click', () => {
                                      16.
                                                        document.getElementById('btnclick').innerHTML = 'Button clicked!';
                                      17.
                                      18.
                                               </script>
                                      19. </body>
                                      20. </html>
                                     Copied!
                                       1. 1
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                                       1. <!DOCTYPE html>
                                        2. <html lang="en">
                                        3. <head>
                                               <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
                                        4.
                                        5.
                                        6.
                                                <title>Document</title>
                                           </head>
                                       7. </head
8. <body>
                                       9.
                                                <button onclick="myFunction()">Click me</button>
                                       10.
                                       11.
                                                function myFunction() {
                                                  alert('Button clicked!');
                                       12.
                                      13.
                                                </script>
                                      14.
                                      15. </body>
                                      16. </html>
                                     Copied!
                                       1. 1
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                                      18. 18
                                       1. <!DOCTYPE html>
                                        2. <html lang="en">
                                       3. <head>
                                                <meta charset="UTF-8">
                                       4.
                                        5.
                                                <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                        6.
                                                <title>Document</title>
                                        7.
                                           </head>
                                       8.
                                           <body>
                                                <div id="myDiv" style="width: 200px; height: 200px; background-color: lightblue;"></div>
                                       9.
                                      10.
                                                <script>
                                      11.
                                                  const myDiv = document.getElementById('myDiv');
                                                  // Adding a mouseover event listener
                                       12.
                                                 myDiv.addEventListener('mouseover', () => {
  myDiv.style.backgroundColor = 'lightgreen';
                                       13.
                                      14.
                                      15.
                                                  });
                                      16.
                                               </script>
                                      17. </body>
                                      18. </html>
                                      Copied!
                                       1. 1
that the mouse is no longer over that
                                       5. 5
6. 6
7. 7
                                        8.8
                                       10. 10
                                      11. 11
```

onclick Event

A way of assigning a function directly to an HTML element to execute when it's clicked.

**Mouseover Event** 

mouseout Event

The mouseover event is triggered when the mouse cursor enters an element.

The mouseout event in JavaScript is triggered when the mouse pointer moves out of an element, indicating

> 12. 12 13. 13

specific element.

```
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20. 20
21. 21
 1. <!DOCTYPE html>
2. <html lang="en">
 3. <head>
  4.
          <meta charset="UTF-8">
 5.
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6.
          <title>Document</title>
 7.
8.
     </head>
     <body>
          <div id="myDiv" style="width: 200px; height: 200px; background-color: lightblue;"></div>
 9.
 10.
          <script>
11.
            const myDiv = document.getElementById('myDiv');
            // Adding a mouseover event listener
myDiv.addEventListener('mouseover', () => {
    myDiv.style.backgroundColor = 'lightgreen';
}
12.
13.
14.
15.
            myDiv.addEventListener('mouseout', () => {
myDiv.style.backgroundColor = 'lightcoral';
16.
 17.
18.
19.
          </script>
20. </body>
21. </html>
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 1. 1
2. 2
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19. 19
 1. <!DOCTYPE html>
  2.
     <html>
 3. <head>
4. <t</pre>
         <title>Keydown Event Handling</title>
     </head>
  5.
  6.
     <body>
  7.
          <input type="text" id="myInput">
  8.
          9.
 10.
          <script>
               const input = document.getElementById("myInput");
11.
               const output = document.getElementById("output");
12.
13.
 14.
               input.onkeydown = function(event) {
15.
                   output.textContent = `Key pressed: ${event.key}`;
16.
               };
          </script>
17.
18. </body>
19. </html>
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19. 19
 1. <!DOCTYPE html>
 2. <html>
```

Keydown Event

**Change Event** 

The keydown event is triggered when a key on the keyboard is pressed down.

The change event is triggered when

3. <head>

<title>Change Event Handling</title>

the value of an input element

dropdowns.

changes. Typically, it's used for

form elements like text fields or

```
6. <body>
  7.
          <input type="text" id="myInput">
 8.
          9.
10.
          <script>
               const input = document.getElementById("myInput");
11.
               const output = document.getElementById("output");
12.
               input.onchange = function() {
    output.textContent = `Value changed to: ${input.value}`;
14.
15.
16.
               };
          </script>
17.
18. </body>
19. </html>
Copied!
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 3. 3
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 32. 32
 33. 33
 35. 35
 1. <!DOCTYPE html>
 2. <html>
  3. <head>
 4.
       <title>Form Submission Example</title>
  5. </head>
 6. <body>
  7.
        <form id="myForm" onsubmit="validateForm()">
  8.
          <label for="name">Name:</label>
          <!ade1 for= name //lade1/y
<input type="text" id="name" name="name"><br><br><label for="email">Email:</label>
<input type="email" id="email" name="email"><br><br><input type="submit" value="Submit">
 9.
 10.
11.
12.
13.
        </form>
14.
 15.
        <script>
16.
          function validateForm() {
17.
            // Prevent the default form submission
18.
             event.preventDefault();
19.
 20.
             // Retrieve form values
             const name = document.getElementById('name').value;
 21.
             const email = document.getElementById('email').value;
23.
            // Perform validation (for example, checking if fields are filled)
if (name === '' || email === '') {
   alert('Please fill in all fields.');
24.
 25.
26.
               return false; // Prevent form submission if validation fails
 27.
 28.
 29.
 30.
             \ensuremath{//} If validation passes, continue with form submission
31.
             alert('Form submitted successfully!');
          }
 32.
```

onsubmit Event

The onsubmit event in HTML occurs when a form is submitted, either by clicking a submit button or by calling the submit().

33.

</script> 34. </body> 35. </html>

5. </head>



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