MouseEvent button Property

- ✓ The button property returns which mouse button is pressed when a mouse event occurs.
- ✓ The button property is mostly used with the onmousedown event.
- ✓ The button property is read-only.

Syntax

event.button

Return Value: A Number.

Which mouse button that was pressed:

- 0 : Left button
- o 1: Wheel or middle button (if present)
- o 2: Right button

For a left-hand configured mouse, the values are reversed.

KeyboardEvent key Property

- ✓ The key property returns the key that was pressed when the event occured.
- ✓ The key property is read-only.

Syntax

event.key

Return Value: A String

The key that was pressed:

- A single character ("A", "a", "4", "+", "\$")
- Multiple characters ("F1", "Enter", "HOME", "CAPS LOCK")

KeyboardEvent keyCode

✓ Get the value of the pressed keyboard key:

The keyCode property is deprecated.

Syntax

event.keyCode

Example: Write JS to handle following key events

- 1) Give keycode for the key pressed
- 2) Script should give message "vowel is pressed" on pressing vowel key
- 3) Background color should change to red after releasing the pressed key

```
<html>
<head>
<script>
function fun1()
c= (event.key);
if(c=='a' || c=='e' || c=='i' || c=='o' || c=='u' || c=='A' || c=='E' || c=='I' || c=='O'
|| c=='U')
  document.getElementById("p1").innerHTML= "Vowel: " + c + " > " +
event.keyCode
}
else
  document.getElementById("p1").innerHTML= "Consonants: " + c + " > " +
event.keyCode;
</script>
</head>
<body>
<input type="text" id="i1" onkeypress="fun1()" />
</body>
</html>
```

To check an Armstrong number

```
<script>
// In the case of an Armstrong number of 3 digits, the sum of cubes of each digit
is equal to the number itself. For example, 153 is an Armstrong number because
// 153 = 1*1*1 + 5*5*5 + 3*3*3
// Similarly, 1634 is an Armstrong number because:
// 1634 = 1*1*1*1 + 6*6*6*6* + 3*3*3*3 + 4*4*4*4
let sum = 0;
const number = prompt('Enter a three-digit positive integer: ');
// create a temporary variable
let temp = number;
while (temp > 0) {
 // finding the one's digit
  let remainder = temp % 10;
  sum += remainder * remainder * remainder;
 // removing last digit from the number
  temp = parseInt(temp / 10); // convert float into integer
// check the condition
if (sum == number) {
  console.log(`${number} is an Armstrong number`);
}
else {
  console.log(`${number} is not an Armstrong number.`);
</script>
```

Example: Check Prime Number

A prime number is a positive integer that is only divisible by **1** and itself. For example, **2**, **3**, **5**, **7**, **11** are the first few prime numbers.

```
<script>
// program to check if a number is prime or not
// take input from the user
const number = parseInt(prompt("Enter a positive number: "));
let isPrime = true;
// check if number is equal to 1
if (number === 1) {
  console.log("1 is not a prime number");
// check if number is greater than 1
else if (number > 1) {
    if (number % 2 == 0) {
      console.log(number+ " is a not prime number");
    else{
      console.log(number + " is a prime number");
  }
// check if number is less than 1
else {
  console.log("The number is not a prime number.");
}
</script>
```

Example 1: Write HTML form accepting an integer having four digits. Input should not accept characters of letters and special symbols.

Example 2: Write a JS to validate username and password.

Password: Length must be of 6 to 12 characters.

Username: Should not start with _, @ and any number.

Both must not be blank

Example 3: Design a login form using JS. Following validation in password field, Minimum length of password must be of 8 letters and it must have some special characters.

Example: Show validation using JS on fields like name, phone number and email id

RE for Username: /^[A-z]+\$/; RE for Phone number: /^\d{10}\$/;

RE for email: $/^w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;$