<!DOCTYPE html>

<html>

<body>

<h2>Redeclaring a Variable Using let</h2>

<p id="demo"></p>

<script>

let x = 10;

// Here x is 10

{

let x = 2;

// Here x is 2

}

// Here x is 10

document.getElementById("demo").innerHTML = x;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>Declaring a Variable Using const</h2>

<p id="demo"></p>

<script>

var x = 10;

// Here x is 10

{

const x = 2;

// Here x is 2

}

// Here x is 10

document.getElementById("demo").innerHTML = x;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Arrow Functions</h2>

<p>With arrow functions, you don't have to type the function keyword, the return keyword, and the curly brackets.</p>

<p>Arrow functions are not supported in IE11 or earlier.</p>

<p id="demo"></p>

<script>

const x = (x, y) => x \* y;

document.getElementById("demo").innerHTML = x(5, 5);

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Arrow Functions</h2>

<p>Arrow functions are not supported in IE11 or earlier.</p>

<p id="demo"></p>

<script>

const x = (x, y) => { return x \* y };

document.getElementById("demo").innerHTML = x(5, 5);

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript For Of Loop</h2>

<p>The for of statement loops through the values of any iterable object:</p>

<p id="demo"></p>

<script>

const cars = ["BMW", "Volvo", "Mini"];

let text = "";

for (let x of cars) {

text += x + "<br>";

}

document.getElementById("demo").innerHTML = text;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Map Objects</h2>

<p>Objects as keys in a Map:</p>

<p id="demo"></p>

<script>

// Create Objects

const apples = {name: 'Apples'};

const bananas = {name: 'Bananas'};

const oranges = {name: 'Oranges'};

// Create a new Map

const fruits = new Map();

// Add the Objects to the Map

fruits.set(apples, 500);

fruits.set(bananas, 300);

fruits.set(oranges, 200);

// Display Object Type

document.getElementById("demo").innerHTML = fruits;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Sets</h2>

<p>Add values to a Set:</p>

<p id="demo"></p>

<script>

// Create a Set

const letters = new Set();

// Add Values to the Set

letters.add("a");

letters.add("b");

letters.add("c");

// Display set.size

document.getElementById("demo").innerHTML = letters.size;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Class</h2>

<p>How to use a JavaScript Class.</p>

<p id="demo"></p>

<script>

class Car {

constructor(name, year) {

this.name = name;

this.year = year;

}

}

const myCar = new Car("Ford", 2014);

document.getElementById("demo").innerHTML =

myCar.name + " " + myCar.year;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Promise</h2>

<p>Wait 3 seconds (3000 milliseconds) for this page to change.</p>

<h1 id="demo"></h1>

<script>

const myPromise = new Promise(function(myResolve, myReject) {

setTimeout(function(){ myResolve("I love You !!"); }, 3000);

});

myPromise.then(function(value) {

document.getElementById("demo").innerHTML = value;

});

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>Using JavaScript Symbol()</h2>

<p id="demo"></p>

<script>

const person = {

firstName: "John",

lastName: "Doe",

age: 50,

eyeColor: "blue"

};

let id = Symbol('id');

person[id] = 140353;

document.getElementById("demo").innerHTML = person[id] + " " + person.id;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>Default Parameter Values</h2>

<p id="demo"></p>

<script>

function myFunction(x, y = 10) {

// y is 10 if not passed or undefined

return x + y;

}

document.getElementById("demo").innerHTML = myFunction(5);

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Function Rest Parameter</h2>

<p>The rest parameter (...) allows a function to treat an indefinite number of arguments as an array:</p>

<p id="demo"></p>

<script>

function sum(...args) {

let sum = 0;

for (let arg of args) sum += arg;

return sum;

}

let x = sum(4, 9, 16, 25, 29, 100, 66, 77);

document.getElementById("demo").innerHTML = x;

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Arrays</h2>

<p>The Array.from() method returns an Array object from any object with a length property or any iterable object.</p>

<p id="demo"></p>

<script>

const myArr = Array.from("ABCDEFG");

document.getElementById("demo").innerHTML = myArr;

</script>

<p>The Array.from() method is not supported in Internet Explorer.</p>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Array.findIndex()</h2>

<p id="demo"></p>

<script>

const numbers = [4, 9, 16, 25, 29];

document.getElementById("demo").innerHTML = "First number over 18 has index " + numbers.findIndex(myFunction);

function myFunction(value, index, array) {

return value > 18;

}

</script>

</body>

</html>

<!DOCTYPE html>

<html>

<body>

<h2>JavaScript Number Methods</h2>

<p>The isFinite() method returns false if the argument is Infinity or NaN.</p>

<p>Otherwise it returns true.</p>

<p id="demo"></p>

<script>

document.getElementById("demo").innerHTML =

isFinite(10 / 0) + "<br>" + isFinite(10 / 1);

</script>

</body>

</html>

BOOTSTRAP PROGRAMS BELOW:::::::::::::::

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container-fluid">

<h1>My First Bootstrap Page</h1>

<p>This part is inside a .container-fluid class.</p>

<p>The .container-fluid class provides a full width container, spanning the entire width of the viewport.</p>

</div>

</body>

</html>

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<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container-fluid">

<h1>Hello World!</h1>

<p>Resize the browser window to see the effect.</p>

<p>The columns will automatically stack on top of each other when the screen is less than 768px wide.</p>

<div class="row">

<div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>

<div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>

</div>

</div>

</body>

</html>

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<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Button Tags</h2>

<a href="#" class="btn btn-info" role="button">Link Button</a>

<button type="button" class="btn btn-info">Button</button>

<input type="button" class="btn btn-info" value="Input Button">

<input type="submit" class="btn btn-info" value="Submit Button">

</div>

</body>

</html>

<!DOCTYPE html>

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<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="jumbotron">

<h1>Bootstrap Tutorial</h1>

<p>Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.</p>

</div>

<div class="container">

<p>This is some text.</p>

<p>This is another text.</p>

</div>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

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<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Dropdowns</h2>

<p>The .divider class is used to separate links inside the dropdown menu with a thin horizontal line:</p>

<div class="dropdown">

<button class="btn btn-default dropdown-toggle" type="button" data-toggle="dropdown">Tutorials

<span class="caret"></span></button>

<ul class="dropdown-menu">

<li><a href="#">HTML</a></li>

<li><a href="#">CSS</a></li>

<li><a href="#">JavaScript</a></li>

<li class="divider"></li>

<li><a href="#">About Us</a></li>

</ul>

</div>

</div>

</body>

</html>

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<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Vertical (basic) form</h2>

<form action="/action\_page.php">

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" id="email" placeholder="Enter email" name="email">

</div>

<div class="form-group">

<label for="pwd">Password:</label>

<input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">

</div>

<div class="checkbox">

<label><input type="checkbox" name="remember"> Remember me</label>

</div>

<button type="submit" class="btn btn-default">Submit</button>

</form>

</div>

</body>

</html>

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<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container-fluid">

<h1>Small Grid</h1>

<p>The following example will result in a 25%/75% split on small, medium and large devices. On extra small devices, it will stack (100% width).</p>

<p>Resize the browser window to see the effect.</p>

<div class="row">

<div class="col-sm-3" style="background-color:yellow;">

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.<br>

Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

</div>

<div class="col-sm-9" style="background-color:pink;">

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.

</div>

</div>

</div>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

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<meta name="viewport" content="width=device-width, initial-scale=1">

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<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Hover Rows</h2>

<p>The .table-hover class enables a hover state on table rows:</p>

<table class="table table-hover">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

</html>