# JavaScript Variables

### Variables are Containers for Storing Data

JavaScript Variables can be declared in 4 ways:

- Automatically
- Using var
- Using let
- Using const

In this first example, x, y, and z are undeclared variables.

They are automatically declared when first used:

<!DOCTYPE html>

<html>

<body>

<h1>JavaScript Variables</h1>

In this example, x, y, and z are undeclared.

They are automatically declared when first used.

<script>

x = 5;

y = 6;

z = x + y;

```
document.getElementById("demo").innerHTML =
"The value of z is: " + z;
</script>
</body>
```

</html>

Output:-

# JavaScript Variables

In this example, x, y, and z are undeclared.

They are automatically declared when first used.

The value of z is: 11

#### Example using var

var x = 5; var y = 6; var z = x + y;

# Note

The var keyword was used in all JavaScript code from 1995 to 2015.

The let and const keywords were added to JavaScript in 2015.

The var keyword should only be used in code written for older browsers.

Using let keyword example :-

<!DOCTYPE html>

<html>

<body>

<h1>JavaScript Variables</h1>

In this example, x, y, and z are variables.

<script>

let x = 5;

let y = 6;

let z = x + y;

document.getElementById("demo").innerHTML =

"The value of z is: + z;

</script>

</body>

</html>

Output:-

### **JavaScript Variables**

In this example, x, y, and z are variables.

The value of z is: 11

### Example using const

<!DOCTYPE html>

<html>

<body>

<h1>JavaScript Variables</h1>

In this example, x, y, and z are variables.

<script>

const x = 5;

const y = 6;

const z = x + y;

document.getElementById("demo").innerHTML =

"The value of z is: + z;

</script>

</body>

</html>

Output:-

### **JavaScript Variables**

In this example, x, y, and z are variables.

The value of z is: 11

## When to Use var, let, or const?

- 1. Always declare variables
- 2. Always use **const** if the value should not be changed
- 3. Always use const if the type should not be changed (Arrays and Objects)
- 4. Only use let if you can't use const
- 5. Only use var if you MUST support old browsers.