



# **JavaScript**

### Module 1

**Chapter 1-Getting Started with JavaScript** 





## What is JavaScript



- The world's most popular programming language.
- The programming language of the Web.
- Object-based client-side scripting language.
- Lightweight and cross-platform.





## Why to study JavaScript

JavaScript is one of the fundamental building blocks of web development.

The 3 languages all web developers must learn:

- 1. HTML to define the content of web pages
- 2. CSS to specify the layout of web pages
- 3. JavaScript to program the behavior of web pages







## What JavaScript can do?

Lets See some examples





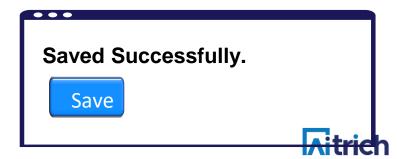


## JavaScript can change HTML Content

```
<!DOCTYPE html>
<html>
<body>
Click this button to save.
<but><br/><br/>dutton type="button"
onclick='document.getElementByld("msg").innerHTML
= "Saved Successfully"'>Save</button>
</body>
</html>
```

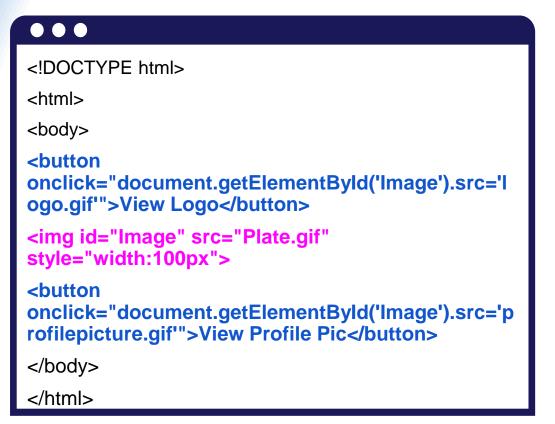
#### **Output before button click**







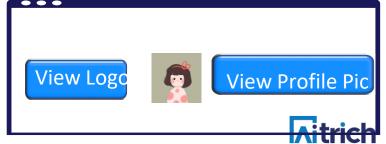
### JavaScript can change HTML Attribute Values



Output on clicking "Show Cup" button

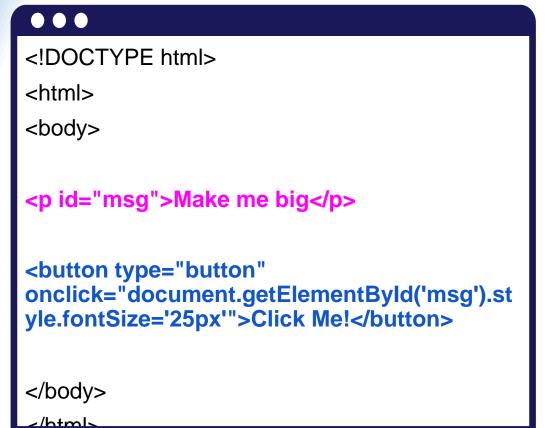


Output on clicking "Show Plate" button



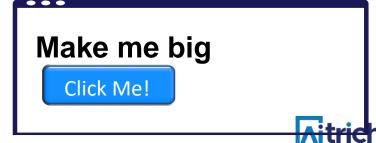


### JavaScript can change HTML Styles



**Output before button click** 





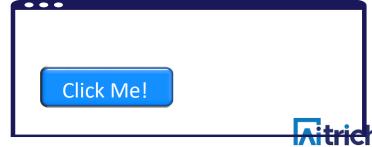


## JavaScript can hide HTML Elements



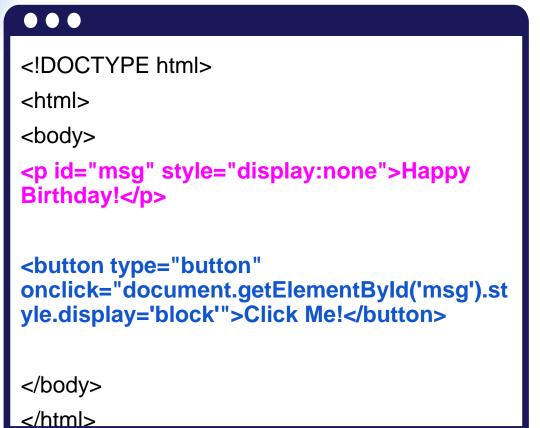
**Output before button click** 





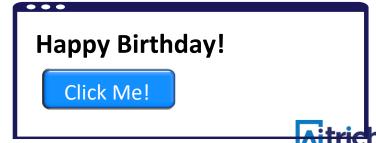


### JavaScript can show HTML Elements



**Output before button click** 







### Setting up a development environment

#### **Installing Browser:**

Mostly, you will have a browser already installed on your PC. Else, download and install the following browser as per your preference.

- Microsoft Edge
- Google Chrome
- Mozilla FireFox
- Safari (on Mac OS)
- Opera





### Setting up a development environment

#### IDEs for JavaScript Application Development

You can write JavaScript code using a simple editor like Notepad. However, you can install any open-sourced or licensed IDE (Integrated Development Environment) to get the advantage of IntelliSense support for JavaScript and syntax error/warning highlighter for rapid development.

- Visual Studio Code (Free, cross-platform)
- Eclipse (Free, cross-platform)
- Atom (Free, cross-platform)
- Notepad++ (Free, Windows)
- Code Lobster (Free, cross-platform)
- WebStorm (Paid, cross-platform)





### Writing your first JavaScript program

```
<!DOCTYPE html>
<html>
<body>
<h2>Show Date and Time</h2>
<but><br/><br/>dutton type="button"
onclick="document.getElementById('msg').innerHTML
= Date()">Display Date and Time</button>
</body>
</html>
```

#### **Output before button click**

**Show Date and Time** 

Display Date and Time

#### Output after button click

#### **Show Date and Time**

Display Date and Time

Sat Dec 09 2023 10:20:45 GMT+0530 (India Standard Time)





## **Thank You**

