JavaScript Tutorial - JavaScript with fun

Topics to be covered:-

1) Js Introduction

2) JavaScript Basic
   - JS Comment, Variable
   - Js Data Type
   - Js Operator
   - JS If statements, IIf else ladder
   - Js Switch
   - Js Loop, while loop, for loop
   - Js switch cas
   - Js functions

3) JavaScript Object
   - JS Object
   - JS Array
   - JS String
   - Js Date
   - Js Math, Number
   - Js Boolean
   - JS loops with Arrays

4) JavaScript BOM
   Browser Object

5) Javascript Dom
   Document Object

6) JavaScript Validation

7) JavaScript OOPs
   - Class
   - Object
   - Prototype
   - Constructor Method
   - Static Method
   - Encapsulation
   - Inheritance
   - Polymorphism
   - Abstraction

8. JavaScript Cookies, Events, Handling

9.¹ JS Misc
- JS this keyword
- JS Debugging
- JS Hoisting
- JS Strict Mode
- Javascript Promise
- JS Compare dates
- JS array-length
- JS alert()
- Js eval() function
- JS eval closest()
- JS continue statement
- JS get Attribute() method.

Java-Script

JavaScript is a light weight, OBP language which makes website interactivit interactive. It is a scripting language Nowadays, it is used in server-side development. It is used to add dynamic effets to web pages. The JS Frontend frameworks are React, Angular. And the Backend frameworks are express nodes.

Feature of JavaScript

1. All popular web browser support JavaScript as they provide built-in execution environments.

2. JavaScript follows the Syntax and structure of the C programming language.

3. JavaScript is a weakly typed language, where certain types are implicitly cost

4. It is a case-sensitive language.

5. It provides good control to the users over the web browsers.

Application of JavaScript

JavaScript is used to create interactive websites. It is used for:-
1. Clint Client-side validation
2. Dynamic drop-down menus.
3. Displaying date and time. etc.

JavaScript Example

JavaScript example is easy to code. JavaScript provide 3 places to put the Javascript Code : Within body tag, with in head tag and external Javascript file.

Example:-

```
<script type ="text/javascript">
document.write("Javascript is a simple language");
</script>
```

- The script tag specifies that we are using JavaScript
- The text/javascript is the content type that provide information about the data.
- The document.write() function is used to display dynamic content through JavaScript.

3 place to put Javascript code

1. Javascript Example: code between the body tag.
2. Another Example

```
<script type="text/javascript">
alert("Hello Javapoint");
</script> <script>
```

2. JavaScript Example: code between the head tag.

```
<html>
<head>
<script type= "text/javascript">
function msg() {
alert("Hello Javapoint");
```

```
}
<script>
</head>
<body>
<P> Welcome to Javapoint </P>
<Input type = "button" value = "click" onclick = msg
            ()/>
</form>
</body>
</html>
```

3. External JavaScript file.

message.Js

```
function msg(){
alert ("Hello JavaScript");
}
```

Let's include

```
<head>
  <script type = "text/JavaScript" src = "message.js"></script>
</head>
```

Advantage of External JavaScript

1. It helps in the resuability of code in more than one HTML file
2. It allows easy code readability.

Disadvantage are:-

1. If hoo js files are dependent on another then a failure in one file may affect the execution of the other dependent file.

2. If it is a few line of code, then better to implement the internal javascript code.

JavaScript Comment.

The Javascript comments are meaningful way to deliver message. It is used to add information about the code. Warnings or suggest suggestion also, that and user can easily interpret the code.

Advantage of Javascript comments.
1. To make code easy to understand
2. To avoid the unnecessary code.

Type of comment.
1. Single-line comment
   // This is single-line comment

2. Multi-line comment
   /* code */