

JavaScript

- **JavaScript** is a object-based scripting language. It is light weighted.
- Using HTML we can only design a web page but you can not run any logic on web browser like addition of two numbers, check any condition, looping statements (for, while), decision making statement (if-else) at client side. All these are not possible using HTML So for perform all these task at client side you need to use JavaScript.

1. Features of JavaScript

JavaScript is a client side technology, it is mainly used for gives client side validation, but it have lot of features which are given below:

- JavaScript is a object-based scripting language.
- It is light weighted.
- JavaScript is a scripting language and it is not java.
- It Handling dates and time.
- JavaScript is interpreter based scripting language.
- JavaScript is case sensitive.
- JavaScript is object based language as it provides predefined objects.
- Every statement in javascript must be terminated with semicolon (;).

2. Uses of JavaScript

There are too many web applications running on the web that are using JavaScript technology like gmail, facebook, twitter, google map, youtube etc.

- Client-side validation
- Dynamic drop-down menus
- Displaying date and time
- Validate user input in an HTML form before sending the data to a server.
- Build forms that respond to user input without accessing a server.
- Change the appearance of HTML documents and dynamically write HTML into separate Windows.
- Open and close new windows or frames.
- Manipulate HTML "layers" including hiding, moving, and allowing the user to drag them around a browser window.
- Build small but complete client side programs .
- Displaying popup windows and dialog boxes (like alert dialog box, confirm dialog box and prompt dialog box)
- Displaying clocks etc.

3. JavaScript First Program

```
<html>
```

```
<form>
```

```
<input type="button" value="Submit" onclick="alert('Welcome to First Program')"/>
```

```
</form>
```

```
</html>
```

Javascript simple example to verify age of any person, if age is greater than 18 show message adult otherwise show under 18

```
<html>
```

```
<head>
```

```
<script>
function verify(){
var no;
no=Number(document.getElementById("age").value);
if(no<18)
{
alert("Under 18");
}
else
{
alert("You are Adult");
}
}
</script>
</head>
<body>
Enter your age:<input id="age"><br />
<button onclick="verify()">Click me</button>
</body>
</html>
```