JavaScript Variables

In JavaScript, we may have variables which can be used as containers for storing data values. These variable may further used to display data. A variable in JavaScript can be defined with `var` keyword. For example:

```javascript
var a;
var temp; var c;
var temp = a + c;
```

Example

```html
<html>
<body>
<h2>Using JavaScript Variable</h2>
<p>a,b, temp as JavaScript variable</p>
<p id="SUM"></p>
<script>
var a = 16;
var b = 20;
var temp= a +b;
document.getElementById("SUM").innerHTML = 
"The sum value of variable a and b is: " +temp;
</script>
</body>
</html>
```

Output
Displaying data to webpages using JavaScript i.e. JavaScript output

It is always desired to display data on the webpages in various form. JavaScript allows users to do the same in various forms. The following properties / commands are used to do so:

- `innerHTML` property – To write into an HTML element
- `document.write()` method – To write into the HTML output
- `window.alert()` method – To write into an alert box
- `console.log()` method – To write into the browser console

```html
<html>
<body>
<h2>NIELIT</h2>
<p>Displaying info using JavaScript, using innerHTML property of document.getElementById() method</p>
<p id="Example1"></p>
<script>
document.getElementById("Example1").innerHTML = 20+45-15;
</script>
</body>
</html>
```
document.write() method

document.write() method is used to display the data onto the webpage. It is to remember that do not call document.write() method after the document has finished loading, if so it will overwrite the whole web document.

<html>
<body>
<h2>NIELIT Gorakhpur</h2>
<p>Displaying output using document.write() method of JavaScript</p>
<script>
    document.write("The output is : ");
    document.write(20+45-15);
</script>
</body>
</html>

Output
window.alert() method

window.alert() method is used to display an alert box with specified data on the webpage. A small **pop-up box** with a closing button appears, and disappears after the button has been clicked.

```html
<html>
<body>
<h2>Using JavaScript Window Alert</h2>
<p>Displaying data in Alert</p>
<script>
window.alert("Press OK button to exit from Alert Window");
</script>
</body>
</html>
```

**Output:**

![Alert Window](image)
**console.log() method**

`console.log()` method is used to display data in the browser. This is mainly used for debugging purposes and the data is displayed only in debugging console mode. This mode can be activated by pressing F12 or through setting options.

```html
<html>
<body>
<h2>NIELIT</h2>
<p>NIELIT is an institute which gives training in IECT Areas.</p>
<p>IT training include long term courses such as O level, A level and other short term courses such as C, Python, Java etc</p>

<p>Press F12 for debuggging mode or go from setting</p>
<script>
var a="This will only display on debugger console mode. Press F12 for debuggging mode or go from setting";
console.log(a)
</script>
</body>
</html>
```

**Output**

![Image of a web page showing Output]

**Assignment**

1. What are various ways to display output in JavaScript?

2. How the Debugging console mode is activated?