



## **Module 3:** JavaScript – Cheat Sheet

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2.0. Introduction to JavaScript		
What is JavaScript?	<ul> <li>Statement-based programming langua</li> <li>Creates functionality in the web page.</li> <li>Makes the web page interactive to the</li> </ul>	
Features:	<ul> <li>Case sensitive language.</li> <li>It is Object Oriented Programming (OC</li> <li>It is mainly used to manipulate element</li> </ul>	
History:	<ul> <li>Developed by Brendan Eich in 1995 ar Manufacturers Association) standard i</li> <li>ECMAScript (ES) is the official name of</li> <li>JavaScript 1 / ECMAScript 1:</li> <li>JavaScript 2 / ECMAScript 2:</li> <li>JavaScript 3 / ECMAScript 3:</li> <li>JavaScript 4 / ECMAScript 4:</li> <li>JavaScript 5 / ECMAScript 5:</li> <li>ECMAScript 6 / ECMAScript 2015:</li> <li>ECMAScript 7 / ECMAScript 2016:</li> <li>ECMAScript 8 / ECMAScript 2017:</li> <li>ECMAScript 9 / ECMAScript 2018:</li> <li>ECMAScript 10 / ECMAScript 2019:</li> </ul>	

## **Concepts:**

2.1. Variable	
Syntax:	var variableName = value;
Interpretation:	<ul> <li>Creates a variable to store a value, array, function or object.</li> </ul>
Example:	var x = 100;

2.3. Arrays	
Syntax:	[ value1, value2, ]
Interpretation:	<ul> <li>Array is a collection of multiple values of same / different data type.</li> </ul>
	<ul> <li>You can add / remove / sort or perform any manipulation on arrays dynamically.</li> </ul>
Example:	[ 10, 20, 'abc', true ]





```
Syntax:

{
    property: value, property: value,
    method: function() { }
}

Interpretation:

• Stores a set of properties and methods.

• Methods can manipulate properties.

Example:

{
    studentRollNo: 123,
        studentName: "Scott",
        getStudentName()
    {
        return this.studentName;
    }
}
```

## **Conversion Functions:**

2.5. JSON.stringify( )	
Syntax:	JSON.stringify( { property: value } )
Interpretation:	<ul> <li>Converts object into JSON.</li> <li>JSON data can be portable to other program and also can be stored in browser memory.</li> </ul>
Example:	JSON.stringify( { studentRollNo: 123, studentName: "Scott"} )

2.6. JSON.parse(	)
Syntax:	JSON.parse( '{ "property": "value" }' )
Interpretation:	<ul> <li>Converts JSON data into object.</li> <li>Used to convert JSON data that is received from other programs or from browser's memory.</li> </ul>
Example:	JSON.stringify( '{ "studentRollNo": 123, "studentName": "Scott"}' )

2.7. Object.keys()	
Syntax:	Object.keys( { property: value } )
Interpretation:	Return list of property names as an array.
Example:	Object.keys( { studentRollNo: 123, studentName: "Scott"})

2.8. typeof	
Syntax:	typeof value
Interpretation:	Returns data type of given value.
Example:	typeof 100

2.9. Number	
Syntax:	Number( string value )
Interpretation:	<ul> <li>Converts the given string value into 'number" data type.</li> </ul>
Example:	Number( '100' )





210. String	
Syntax:	String( number value )
Interpretation:	<ul> <li>Converts the given number value into 'string" data type.</li> </ul>
Example:	String( 100 )

