# JAVASCRIPT STATEMENTS

## JAVASCRIPT PROGRAMS

| No | Name | Details | Other Details |
|---|---|---|---|
| 1 | Computer program | List of instructions to be executed by a computer. | |
| 2 | Statements | In a programming language, these programming instructions are called Statements. | |
| 3 | JavaScript program | List of programming statements. | In HTML, JavaScript programs are executed by the web browser. |
| 4 | JavaScript Statements | Values, Operators, Expressions, Keywords, and Comments.. | • Most JavaScript programs contain many JavaScript statements.<br>• The statements are executed, one by one, in the same order as they are written.<br>• JavaScript programs (and JavaScript statements) are often called JavaScript code. |
| 5 | Semicolon (;) | Semicolons separate JavaScript statements. Add a semicolon at the end of each executable statement. | • When separated by semicolons, multiple statements on one line are allowed.<br>• Ending statements with semicolon is not required, but highly recommended. |
| 6 | White Space | JavaScript ignores multiple spaces. You can add white space to your script to make it more readable. | • The following lines are equivalent:<br>let person = "Hege";<br>let person="Hege";<br>• A good practice is to put spaces around operators ( = + - * / ):<br>let x = y + z; |
| 7 | JS Keywords | • JavaScript keywords are reserved words.<br>• Reserved words cannot be used as names for variables.<br>• JavaScript statements often start with a keyword to identify the JavaScript action to be performed. | |
| 8 | JS Values | • The JavaScript syntax defines two types of values: Fixed and Variable<br>• Fixed values are called Literals.<br>• Variable values are called Variables. | |
| 9 | JS Variables | • In a programming language, variables are used to store data values.<br>• JavaScript uses the keywords var, let and const to declare variables.<br>• An equal sign is used to assign values to variables.<br>• Ex :<br>let x;<br>x = 6; | |
| 10 | JS Expressions | • An expression is a combination of values, variables, and operators, which computes to a value.<br>• The computation is called an evaluation. For example, 5 * 10 evaluates to 50:<br>5 * 10<br>• Expressions can also contain variable values.<br>x * 10 | |

| | | • The values can be of various types, such as numbers and strings. | |
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| 11 | JS Comments | • Comments are ignored and will not be executed.<br>• Code after double slashes // or between /* and */ is treated as a comment. | • Single Line Comments : //<br><br>• Multi Line Comments : /* */ |
| 12 | JS Identifiers or Names | • Identifiers are JavaScript names.<br>• They are used to name variables and keywords, and functions. | **Rules for Java Identifiers**<br><br>1. A JavaScript name must begin with: letter (A-Z or a-z), dollar sign ($) or underscore (_).<br><br>2. The first character of an identifier must be a letter, an underscore (_), or a dollar sign ($). It cannot be a digit<br><br>3. Identifiers cannot be reserved words.<br><br>4. JavaScript is **Case-Sensitive.**<br>So myVariable, MyVariable, and myvariable are all considered different identifiers.<br><br>5. JavaScript allows the use of Unicode characters in identifiers, such as non-Latin characters or mathematical symbols. However, it's generally recommended to stick to ASCII characters for compatibility and readability.<br><br>6. Identifiers cannot contain spaces. If you need to represent multiple words, you can use camelCase or snake_case convention.<br><br>7. Hyphens (-) are not allowed in identifiers. They are reserved for subtraction in expressions.<br><br>8. In ECMAScript 5 and later versions, if you're using "strict mode" ("use strict";), certain words are reserved for future versions of ECMAScript and cannot be used as identifiers. These include implements, interface, package, private, protected, public, static, and yield. |
| 13 | Is JS Case Sensitive or not? | • Yes, it is **Case Sensitive.** | |
| 14 | JS Character Set | • JavaScript uses the Unicode character set.<br>• Unicode covers (almost) all the characters, punctuations, and symbols in the world | |