| **Parameters** | **Java** | **Java script** |
| --- | --- | --- |
| Variable Definition | Java is a strongly typed language, so the variable should be declared first before using in the program. | JavaScript is a weakly typed language, so its variable can be declared where they are used. |
| Type of language | It is an object-oriented programming language. | It is an object-based scripting language |
| Type of object | Objects of Java are class-based, so you can't create any program in java without developing a class. | Objects are prototype-based. |
| Extension | It has a file extension ".Java". | It has file extension ".js" |
| Compilation process | It is interpreted as well as complied. Java translates source code into bytecodes. It is executed by JVM(Java Virtual Machine). | All browser has the JavaScript interpreter, which allows you to execute JavaScript code. |
| Process | Compiled on the server before execution on the client. | Interpreted (not compiled) by the client. |
| Code type | Object-oriented. Applets consist of object classes with inheritance. | It is object-based. Code uses built-in, extensible objects but not uses any classes or inheritance. |
| Syntax | Data types must be declared. | Data types not declared. |
| Type of language | Static | Dynamic |
| Key Features | * Great libraries * Widely used * Excellent tooling | * Can be used on frontend/backend * It's everywhere * Lots of great frameworks |