**How JavaScript works & Execution Context**

1. **How JavaScript Works??**
2. **JavaScript: Synchronous or Asynchronous??**
3. **JavaScript: Single-Threaded or Multi-Threaded??**

“**Everything in JavaScript happens inside an Execution Context.**”

**Execution Context:**

|  |  |
| --- | --- |
| Memory (Variable Environment) | Code (Thread of Execution) |
| Variable and Function stored as:  Key: value pair  Fun: {……….} | 0……………………………….  1……………………………….  2……………………………….  3……………………………….  4……………………………….  ………………………………… |

**“JavaScript is a Synchronous Single-threaded language.” (JS can execute one command at a time and in a specific order.)**

**Call Stack: “**Call stack maintains the order of execution of execution contexts.**”**

Call stack

----------------------EC1

----------------------Global EC