

JS INTRODUCTION-2

JAVASCRIPT

- JavaScript is “Single Synchronous Single Threaded Language”.
- JavaScript is Cross-platform, light weight, interpreted, Compiled and Scripting Language.
- JavaScript is “High-Level Language” (Easy for Humans to understand for reading and writing the code easily).

SAMPLE CODE (Steps for Execution)

Task Queue

Microtask Queue

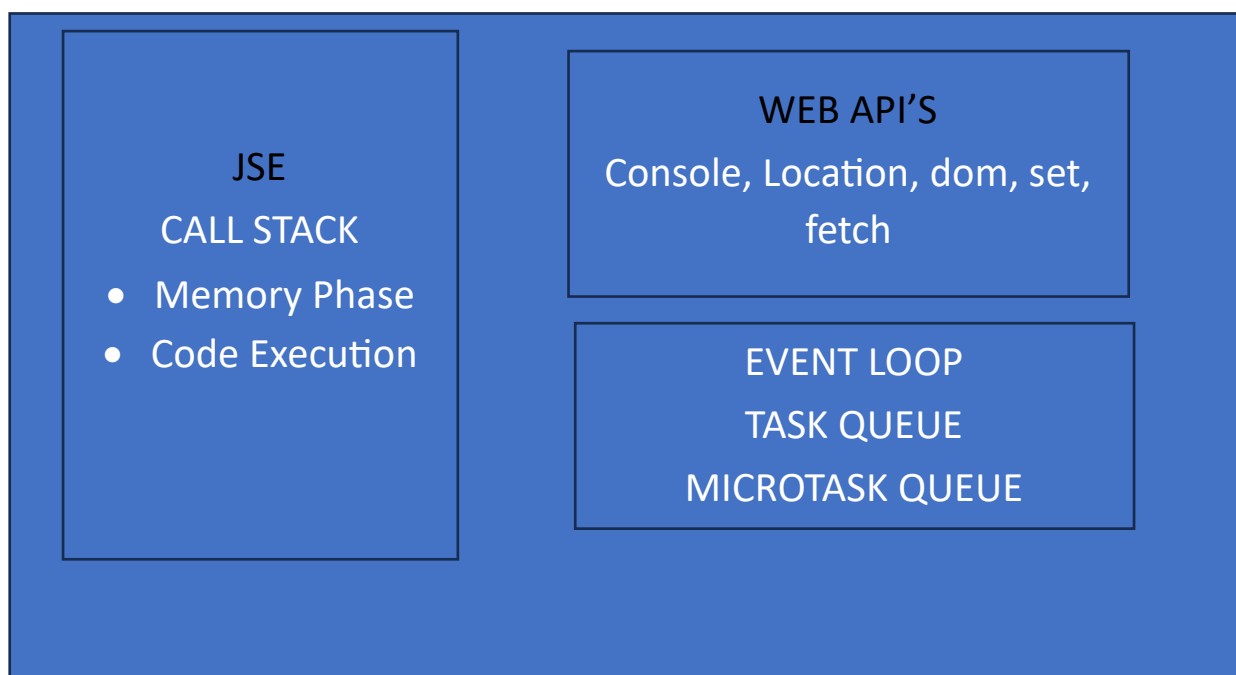
Call Stack

Event Loop → 1. Evaluate Script

2.Run a Task

3.Run all Microtasks

4.Rerender



1.)JS Engine?

JS Engine is Engine which executes all Java Script Codes / Which have control on JS Code.

2.)Call Stack?

Call Stack is where all my java Script code gets executed.

3.)GEC(Global Execution Contest)?

Contest which separates / carry my code into JS phases i.e.; Memory phase and Execution Phase.

4.)What is JS Runtime Environment?

Where all JS code will run.

GEC --→JS Engine--→JS Runtime

5.)Web API's?

API'S which communicate with JS Code.

6.)What is Global Object?

Window

Connection between JS Code and WEB API's to communicate each other.

JS Code --→WEB API's--→Browser

7.)Global Object?

Global Object is a Window which helps to communicate with Web API's.

8.)Anonymous?

Anonymous will take code into 2 phases and this Anonymous is called "Global Execution Contest" and this Anonymous helps JS Code into 2 phases i.e.; Scope (Memory phase) and Code Execution phase.

SAMPLE CODE 1

```
Var a=10;
```

```
Var b=20;
```

```
Console.log(a+b)    //Output: ----- 30
```