***NodeJS Notes***

**Definition**: It’s an Environment to run JS outside the browser.

**Browser v/s Node**

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| ***S.No*** | ***Browser*** | ***Node*** |
| 1. | DOM | No DOM |
| 2. | Window | No Window |
| 3. | Interactive Apps | Server Side Apps |
| 4. | No File system | File system |
| 5. | Fragmentation | Versions |
| 6. | ES6 modules | Common JS |

**GLOBALS – NO WINDOW**

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| --- | --- | --- |
| ***S.No*** | ***Some of globals are below*** |  |
| 1. | \_\_dirname | Path to current directory |
| 2. | \_\_filename | File name |
| 3. | require | Function to use modules (Common JS) |
| 4. | module | Info about current module (file) |
| 5. | process | Info about env where the program is being executed |

**Some Built-In Modules**

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| ***S.No*** | ***Module Name*** | ***Use Case*** |
| 1. | OS | os.userInfo(); os.uptime(); os.type(); os.release(); os.totalmem(); os.freemem(); |
| 2. | Path | path.sep; path.join(); path.basename(); path.resolve() |
| 3. | FS | fs.readFileSync(); fs.writeFileSync(); fs.readFile(); fs.writeFile(); |
| 4. | HTTP | http.createServer(); |

**Streams:** are used to read and write sequentially

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| ***S.No*** | ***Type Name*** | ***Definition*** |
| 1. | Writable | Write data sequentially |
| 2. | Readable | read data sequentially |
| 3. | Duplex | Read and write data sequentially |
| 4. | Transform | Data can be modified when reading or writing |