**Javascript Marathon Assignment – (Day – 1)**

**1. Explain the use of JavaScript (or What you can do using a JavaScript)**

* By using javascript we can build application for both client-side and server-side.
* We can make dynamic and interactive web applications.
* We can validate a form before sending form data to server.

**2. What is the difference between client-side and server-side?**

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| **Client-side** | **Server-side** |
| Code is run on the user’s computer. | Code is run on the server. |
| When a web page is viewed, the page’s client code is downloaded, then run and displayed by the browser. | In server-side, the code is run on the server,  the result is downloaded and displayed in browser. |

**3. What is Nodejs?**

* + Node.js is an open-source, cross-platform, back-end javascript runtime environment that runs on the v8 engine and executes javascript code outside a web browser.
  + It is designed to build scalable network applications.

**4. Explain Scope in JavaScript**

Scope in javascript defines the accessibility of variables.

**5. JavaScript is asynchronous or synchronous.**

Javascript is synchronous, which means it will execute in a specific order.

**6. JavaScript is Single-threaded or multi-threaded.**

Javascript is single threaded, which means it will execute one command or statement at a time.

**7. Explain DOM in your own word.**

* DOM stands for Document Object Model.
* The DOM is a programming interface for web documents.
* The DOM simply represents the web pages (E.g.: HTML elements) as nodes and objects, so that programming language like javascript can access and change the document structure, style and content.