**Assignment For Day 1smiling face with smiling eyesrocket**

1. **Explain the use of JavaScript ( or What you can do using a JavaScript)**
2. **What is the difference between client-side and server-side?**
3. **What is Nodejs?**
4. **Explain Scope in JavaScript**
5. **JavaScript is asynchronous or synchronous.**
6. **JavaScript is Single-threaded or Multi-threaded.**
7. **Explain DOM in your own word.**

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

**Ans – In simple words we can say we can use JavaScript everywhere like for creating Desktop Apps, On Server Side, On Client Side, To add validation in our website, To add functionality in our code. JavaScript helps us to communicate with the servers.**

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

Ans – Client-side is where we can write our front-end logic or a UI part which can be seen by user or to which user can interact with.

Server-side is where we can write our backend logic which cannot be seen by any user.

Que-3 **What is Nodejs?**

**Ans- NodeJs is server side programming language where we can write our JavaScript code and execute our js code. Before Nodejs all the things are executed in browser now we have taken out that js engine from a js browser and implements some logic and creates a language called nodejs. With the help of Nodejs we can create our own servers.**

**Que-4 Explain Scope in JavaScript**

Ans- Scope is directly related to its Lexical Environment. Scope is something where we can access all these code inside these function or block. There are majorily two types of scope. First is Global Scope and Second One is Block Scope. Inside Global Scope that variable can be accessed throughout our program. Inside Block Scope it can be accessed within that block only. Now, the word lexical means in hierarchy, in order, in sequence. When a execution context is created along with it lexical environment is also created.

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

Ans- JavaScript is a Synchronous Single-Threaded Language. But With the help of call back functions in Javascript we can get access to all the Async World. By Using Callback functions we can do all the things all the Async things.

Que-6 **JavaScript is Single-threaded or Multi-threaded.**

Ans- JavaScript is Single-threaded language. In JavaScript all the code are executed one line at a time.

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

Ans- DOM is Document Object Model. In JavaScript by accessing DOM we can change all the HTML Elements. With the HTML DOM, JavaScript can access and change all the elements of an HTML Documents. When a web pages loaded, the browser creates a DOM of the Page.

JS can Change All the HTML element in the page. Can access all the HTML element and Attributes. Can change the Style of an Elements. We can Also Do Event handling with the help of DOM.