**Assignment For Day 1**

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

**Ans:--** Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites.

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

**Ans :\_** Client side means that the processing takes place on the user’s computer. It requires browsers to run the scripts on the client machine without involving any processing on the server. Whereas server side means that the processing takes place on a web server.

1. **What is Nodejs?**

* Node.js is an open source server environment
* Node.js is free
* Node.js runs on various platforms(Windows, Linux, Unix, Mac OS X, etc.
* Node.js uses JavaScript on the server

1. **Explain Scope in JavaScript**

**Ans:-** JavaScript has function scope: Each function creates a new scope.Variables defined inside a function are not accessible (visible) from outside the function.Variables declared with var, let and const are quite similar when declared inside a function.

1. **JavaScript is asynchronous or synchronous.**

**Ans:-** JavaScript is Synchronous

1. **JavaScript is Single-threaded or Multi-threaded.**

Ans:- JavaScript is a single-threaded language because while running code on a single thread, it can be really easy to implement as we don't have to deal with the complicated scenarios that arise in the multi-threaded environment like deadlock. Since, JavaScript is a single-threaded language, it is synchronous in nature

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

**Ans:-** The DOM is a programming API for HTML and XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated.