Q1. **Explain the use of JavaScript ( or What you can do using a JavaScript)**

Ans- JavaScript (JS) is a cross-platform, object-oriented programming language used by developers to make web pages interactive. It allows developers to create dynamically updating content, use animations, pop-up menus, clickable buttons, control multimedia, etc.

Q2.**What is the difference between client-side and server-side?**

Ans - server-side and client-side refer to the location where certain tasks or processes are carried out in a web application. Server-side processes are executed on the web server, while client-side processes are executed on the user's device.

**Q3.What is Nodejs?**

**Ans -**

* 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

**Q4.Explain Scope in JavaScript**

**Ans -**In JavaScript, objects and functions are also variables. Scope determines the accessibility of variables, objects, and functions from different parts of the code.

**Q5.JavaScript is asynchronous or synchronous.**

**Ans -**

| **Sr. no.** | **Synchronous JavaScript** | **Asynchronous JavaScript** |
| --- | --- | --- |
| 1 | Instruction in synchronous code executes in a given sequence. | Instructions in asynchronous code can execute in parallel. |
| 2 | Each operation waits for the previous operation to complete its execution. | Next operation can occur while the previous operation is still getting processed. |
| 3 | Most of the time JavaScript is used as Synchronous code. | Asynchronous JavaScript is preferred in situations in which execution gets blocked indefinitely. |

Q6. **JavaScript is Single-threaded or Multi-threaded.**

Ans – As mentioned in the introduction, JavaScript is single-threaded and all the JavaScript code executes in a single thread.

**Q7. Explain DOM in your own word.**

**Ans -** DOM stands for Document Object Model. It is a programming interface that allows us to create, change, or remove elements from the document. We can also add events to these elements to make our page more dynamic.