

## Assignment 1

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Ans 1:

Javascript is one of the most popular programming language ,  
We can build lot of stuff using it such as mobile apps , backend ,  
frontend,  
cloud and many more other stuff

Ans 2:

Client-side: Client side refers to the front end which is visible to the user and run by the browser.

Server-side: Server side refers to the back end and runs on server which is basically the logic building stuff and not visible. Eg: user login details , some common server side languages are  
python , php , ruby .

Ans 3:

It is an open source server environment which uses javascript on server.

Ans 4:

Scope in javascript means accessibility of variables , objects , functions.

Ans 5:

Javascript is synchronous and asynchronous both

Eg:

synchronous:

```
const fun2 = () => {  
    console.log("Fun 2 starting");  
}  
const fun1 = () => {  
    console.log("Fun 1 starting");  
    fun2();  
    console.log("Fun 1 ending");  
}
```

fun1();

O/P:

Fun 1 starting

Fun 2 starting

Fun 1 ending

asynchronous:

```
const fun2 = () => {  
  
  setTimeout(() => {  
    console.log("Fun 2 starting");  
  }, 1000)  
  
}  
const fun1 = () => {  
  console.log("Fun 1 starting");  
  fun2();  
  console.log("Fun 1 ending");  
}
```

O/P:

Fun 1 starting

Fun 1 ending

Fun 2 starting

Ans 6:

javascript is single-threaded, which means it has one call stack and one memory heap.

Ans 7:

Dom(Document Object Model) is just the structure , how you format the document is known as dom.

There can be various ways in which u can format the way u structure your document is actually

the DOM.