1. **write a blog of difference between HTTP1 VS HTTP2 :**

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| **HTTP1** | **HTTP2** |
| HTTP1 loads a single request for every TCP connection | HTTP2 avoids networking delay by using multiplexing |
| Loads resources one after the other ,so if one resource cannot be loaded ,it blocks all the other resource behind it | It contrast , HTTP2 is able to use a single TCP connection to send multiple streams of data at once so that no one resource blocks any other resource |
| Uses text commands to process data to another entity within its data transfer | Uses a different format-binary commands |
| To load the images | The left images uses to load the 100 images while the right image uses |

1. **Write a blog about objects and its internal representation in JavaScript :**

JavaScript is designed on a simple objects-based paradigm. An object is a collection of properties, and a property is an association between a name (or key) and a value. A property’s value can be a function, in which case the property is known as a method.

**Examples for objects in JavaScript:**

* //object const student = {firstName:’ram’ , class:10};
* Const person = {name :’john’ , age:12};

In JavaScript, there are four ways to create an object – using object literals, constructor functions, ES6 classes and object.

1. **Read about IP address ,port,HTTP methods,MAC address:**

**IP Address:**

* IP – An internet protocol address
* Is an unique numerical identifier for every device or network that connects to the internet?
* Numerical labels such as 192.0.2.11 that is connected to a computer network that uses the internet protocol for communication .an IP address server two main functions: network interface identification, and location addressing
* There are four types of IP addresses – public, private, fixed, and dynamic.
* Among them, public and private addresses are derived from their local network location, which should be used within the network while public IP is used offline

**Port**:

* The port property of the location interface is a string containing the port number of the URL .if the URL does not contain an explicit port number, it will be set to ‘ ‘.
* The port number is a 16-bit unique ID of protocols.
* A port number is a way to identify a specific process to which an internet or other network message is to be forwarded when it arrives at a server
* To get the port number of the current URL in JavaScript ,you need to reference the windows.location.port property of the windows object

**HTTP Methods:**

* The Hypertext Transfer protocol (HTTP) is designed to enable communications between client and servers.
* The primary or most commonly –used HTTP methods are **POST**, **GET**, **PUT**, **PATCH**, and **DELETE.**
* Create NEW record=> **POST**.
* Read=>**GET**.
* If the record exists then update else create a new record=>**PUT**.
* Update/modify=>**PATCH**.
* Delete=>**DELETE**.

**MAC Address:**

* MAC-Media Access Control Address
* A unique, 12-character alphanumeric attribute that is used to identify individual electronic devices on a network
* The MAC address is a hardware identifier that uniquely identifies each device on a network.
* If the device ,for example a laptop, has both a wired (Ethernet) and wireless(Wi-Fi address) connection then there will be one wired MAC address for the wired connection , and the second wireless MAC for the wireless connection.
* MAC address consist of six sets of two characters, each separated by colon.

00:1B:44:11:3A:B7 is an example of a MAC address.