**1.Write a blog difference between HTTP1.1 Vs HTTP2?**

**HTTP** stands for hypertext transfer protocol & it is used in client-server communication. By using HTTP user sends the request to the server & the server sends the response to the user**.**

**HTTP1.1**

1.Developed by **Timothy Berners-Lee in 1989** as a communication standard for the World Wide Web.

2.HTTP is a top-level application protocol that exchanges information between a client computer and a local or remote web server

3.In this process, a client sends a text-based request to a server by calling a method like **GET or POST**

4)HTTP/1.1 introduced standardization, new features, and improved the efficiency of the protocol through better **Caching,encoding,** reusing of HTTP **connections, and pipelining HTTP requests.**

5)HTTP/1.1 relies on the transport layer to avoid buffer overflow, each new **TCP connection requires a separate flow control mechanism.**

**HTTP2**

1.In 2015, a reimagined version called HTTP/2 ,which offered several methods to **decrease latency**,especially when dealing with mobile platforms and server-intensive graphics and videos.

2.It began as the **SPDY protocol, developed primarily at Google** with the intention of reducing web page load latency by using techniques such as compression, multiplexing, and prioritization.

3It **the binary framing layer encodes requests/responses** and cuts them up into smaller packets of information, greatly increasing the flexibility of data transfer.

4It **multiplexes streams within a single TCP connectio**n, and will have to implement flow control in a different manner

5) It allows **servers to “push” responses** proactively into client

|  |  |
| --- | --- |
| **HTTP/1.1** | **HTTP/2** |
| It works on the textual format. | It works on the binary protocol. |
| There is head of line blocking that blocks all the requests behind it until it doesn’t get its all resources. | It allows multiplexing so one TCP connection is required for multiple requests. |
| It uses requests resource Inlining for use getting multiple pages | It uses PUSH frame by server that collects all multiple pages |
| It compresses data by itself. | It uses HPACK for data compression. |

**2.Write a blog about objects and its internal representation in JavaScript?**

JavaScript (JS) is the world’s most popular lightweight, interpreted compiled programming language.It is also known as a scripting language for web pages.

**Object and its internal representation.**

A JavaScript object is a collection of named values having state and behavior properties and method.It is key value pair.

**Keyname: value**

**Syntax:**

**var object-name = {key1: value1, key2: value2,... keyN: valueN};**

**For example:** Car has its own specification.

Var car={

make: ”tata’’,

Model: ‘’tiago’’,

Year:2014};

Object values can be access in two method .Duplicate key not allowed.

1).Dot method.

2.)[]Box method.

**Dot Method**

**Syntax** :objectname.Keyname

Console.log(car.make)

**Output:** tata

**Box Method**

**Syntax**:objectname[“keyname”]

console.log(car["make"]);

**0utput:** tata.