**DAY -1 ASSIGNMENT**

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

1. Multiplexing: Allowed the multiple requests using the single TCP connection

2. It allows server Push to add responses proactively into the browser Chace

3. Header compression: HTTP 2 uses the HPACK method to eliminates few bytes from every HTTP packets.

4. HTTP 2 uses for Binary framing Layer. This layer encapsulates messages – converted to its binary equivalent – while making sure that its HTTP semantics (method details, header information, etc.) remain untamed

5. HTTP2 is very fast compared to HTTP 1.

6. HTTP 1 compresses data by itself where HTTP 2 uses HPACK for data compression.

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

An object is a collection of un ordered items and a property is an association between a name (or key) and a value.

Object in the form of “key: value” pairs. These keys can be variables or functions and are called properties and methods, respectively, in the context of an object.

Objects are accessed using 2 methods.

1. Dot Method
2. Box Method
3. Dot Method:

Dot (.) Method is commonly used.

1. Create a new key

Key: Value

Example:

var emp = {

Name : ”John “

Age : 23

Year : “2008”

}

For creating a new key in the above object:

Syntax: objectname.key=value

emp.gender=”male”

For updating a key in the object:

Syntax: objectname.key=”value”

emp.name=”Rohan”

For Deleting a key in the object

Syntax: delete objectname.key

emp.age

1. Box Method

* This method is helpful when we want to print the key pair in the Loop.
* It is a unidirectional loop
* It will move in the forward direction only.

Syntax:

For (var i key in object){

}

1. Read about IP Address, port, HTTP method, MAC Address

**IP Address:**

* An Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet.
* IP address serves for two main functions: network interface identification and local addressing.

**Port**

* For a computer connected to a network with an [IP address](https://developer.mozilla.org/en-US/docs/Glossary/IP_Address), a **port** is a communication endpoint. Ports are designated by numbers, and below 1024 each port is associated by default with a specific [protocol](https://developer.mozilla.org/en-US/docs/Glossary/Protocol).

**HTTP Method:**

* Most commonly used HTTP methods are: PUT, GET, POST, PATCH and DELETE
* These methods correspond to create, read, update, and delete (or CRUD) operations, respectively.

**MAC Address**

* A MAC (Media Access Control) address, sometimes referred to as a hardware or physical address, is a unique 12 character alphanumeric attribute that is used to identify individual electronic devices on a network.