**TASK-1:**

**Question-1:**

Difference btw HTTP 1.1 Vs HTTP 2:

HTTP 1.1:

-Text Based protocol that is in readable form.

-Concept of Headers, version information, status code

-Supports connection reuse.

HTTP 2:

-binary protocol where each byte is clearly defined.

-Supports queries multiplexing.

- new feature called “server Push”

**Question-2:**

Version History:

HTTP has evolved from an early protocol to exchange files in a semi-trusted laboratory environment, to the modern maze of the Internet, now carrying images, videos in high resolution and 3D.

HTTP/0.9 - one-line Protocol

HTTP/1.0 – building extensibility

HTTP/1.1 – Standardized Protocol

HTTP/2 – Protocol for greater performance

HTTP/3 – HTTP over QUIC

**Question-3:**

**Browser JS:**

-Window is a predefined global object which has Functions & attributes.

-Location is another predefined object.

-Module is not required.

-Document is predefined object.

-Require is not a predefined object**.**

**Node JS:**

-Window is not available in Node JS.

-Location is not available.

-You must keep the code inside the module.

-Document is not present.

-Require is a predefined object.

**Question-3:**

**What happens when you type a URL in the address bar in the browser?**

**-**Browser checks Cache to find corresponding IP address of website

-Checks Browser/OS/router/ISP cache

-If not found, server initiates a DNS query to IP of the server that hosts domain name.

-Browser initiates TCP with server using Synchronize & Acknowledge messages

-Browser send HTTP req – GET or POST

-Server sends response in format of JSON/XML/HTML

-Server sends HTTP response with status of the response.

-Browser displays the HTML content

-Process done!