Do a write up for the followings:

1. Difference between HTTP1.1 vs HTTP2

Ans :

HTTP1.1	HTTP2
● It was created in 1997.	● It was created in 2015.
● It is in use from last 15 years	● It is new in market but being used widely.
● In HTTP1.1, request packet are send in one after the other only when it is requested.	● In HTTP2, multiplexing is used to send request packets, it sends priority based packed even before requested
● It requires compression before sending files.	● It has inbulit advanced compressor named HPACK.
● It is little slow.	● It is more faster than HTTP1.1

2. HTTP version history

Ans :

HTTP version history

HTTP 0.9:- It was the earliest version of HTTP. It didnot uses header and trasmitted only plain html. It was one line protocol using GET method only.

HTTP 1.0:- It came up the concept of header both in client and server side. It allowed single request/response for each TCP connections.

HTTP 1.1:- It is the first standardized version of HTTP launched in 1997. The requriement of terminating the request after response is served is ommited from this version. It allowed the dynamic use for chunk of information. Features like content negotiation, pipeling, cache control were added.

HTTP 2 :- It is one of lastest version of HTTP launched in 2015 and is spreading its feet. It is more faster and optimized. It allows sever to push the response quite before the client demands for it. Thus, Increaseng the overall browsing experience.

3. List 5 differences between Browser JS vs Node Js.

Ans :

Browser JS	Node JS
I Javascript is a programming language that is used for writing scripts on the website.	I NodeJS is a Javascript runtime environment.
I Javascipt can only be run in the browsers	I NodeJS code can be run outside the browser
I It is basically used on the client-side	I It is mostly used on the server-side
I Javascript can run any browser engine as like JS core in safari and spidermonkey in firefox	I NodeJS can only run in V8 engine of google chrome
I Javascript is capable enough to add Html and play with the DOM	I Nodejs does not have capability to add HTML tags

4. what happens when you type a URL in the address bar in the browser?

Ans:-

When we enter the URL in the browser, the browser looks for the IP address of the domain name in the DNS(Domain Name Server). The Browser initiates a TCP connection with the server. Then the browser sends an HTTP request to the server.The server handles the incoming request and sends an HTTP response. Finally after processing the files browser displays the HTML content.