**Assignment 1 Date:05/11/2020**

Q-1)Difference between HTTP1.1 and HTTP/2

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| Sr.No. | HTTP1.1 | HTTP/2 |
| 1 | Year:1997 | Year:2015 |
| 2 | Webpage load latency is less than HTTP/2 | Webpage load latency is higher than HTTP1.1 |
| 3 | HTTP contents kept in plain text format | HTTP contents stored in binary format |
| 4 | Multiplexing not supported | Multiplexing supported |
| 5 | Resource Inlining method used | Server push method used |
| 6 | Header component send in plain text | Header component is also compressed using HPACK program |

Q-2)Version History of HTTP

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| --- | --- |
| Year | HTTP Version |
| 1991 | 0.9 |
| 1996 | 1.0 |
| 1997 | 1.1 |
| 2015 | 2.0 |

Q3)Difference between Browser JS and Node JS

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| Sr.No. | JavaScript | Node JS |
| 1 | Javascript is a programming language that is used for writing scripts on the website. | NodeJS is a Javascript runtime environment. |
| 2 | Javascript can only be run in the browsers. | NodeJS code can be run outside the browser. |
| 3 | It is basically used on the client-side. | It is mostly used on the server-side. |
| 4 | Javascript is capable enough to add HTML and play with the DOM. | Nodejs does not have capability to add HTML tags. |
| 5 | Java Script can run on any engine such as JS core in safari and Spider monkey in firefox | Node JS can run only in V8 engine in google chrome |
| 6 | Some of the Javascript frameworks are TYPEDJS,RAMDAJS | Some of the Nodejs modules are Lodash, express etc. |
| 7 | It is the upgraded version of ECMA script that uses Chrome’s V8 engine written in C+ | Nodejs is written in C, C++ and Javascript. |

Q-4) What happens when u type a URL in address bar in the browser

1. You enter a URL into a web browser
2. The browser looks up the IP address for the domain name via DNS
3. The browser sends a HTTP *request* to the server
4. The server sends back a HTTP *response*
5. The browser begins rendering the HTML
6. The browser sends requests for additional objects embedded in HTML (images, css, JavaScript) and repeats steps 3-5.
7. Once the page is loaded, the browser sends further async requests as needed.