Assignment No -1

1. Difference between HTTP 1.1 and HTTP 2

**HTTP 1.1 HTTP 2**

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| 1. It was first introduced in 1996. 2. The number of TCP connections between   Client and Server are fixed to 6, which were only one before (v1.1). It sends the request via 6 parallel TCP connections , for 6 http requests, blocks the connection until it gets the response, which causes Head Of Line Blocking.   1. Header is packed along with each http request, which is redundant data for each time request is made and cannot be compressed in HTTP 1.1. 2. In 1.1 version more effort is made on caching and minimization of CSS of JS code for fast rendering of data. 3. It is Text based Protocol | 1. It was first introduced in 2015 2. It uses one single TCP connection, in which streams are used and every http request is sent as a stream frame.   It uses TLS(transport Layer Security), so HTTPS is a mandatory requirement for using HTTP 2 , this technique is known as multiplexing.   1. HPACK: this feature allows to separate the header data with the request data, it also caches header data to decrease the size of the request 2. PUSH: It uses PUSH frames to send the mandatory resources in advance with the http response 3. It is a Binary based protocol. |

2. Difference between GET and POST

**GET**  **POST**

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| 1. The values which are passed in the request are readable to anyone from the URL. 2. The size of the values are limited to 255 characters. 3. As the values are simply passed in the URL it is faster than POST. 4. Only string data type is supported in GET. 5. The parameters passed via GET are saved in browser history. 6. Data like username passwords which are sensitive must not be sent through GET. | 1. In POST method values are unreadable for security purposes. 2. There are no limitations to the size of the values. 3. It includes the value in the html body for that reason the speed is reduced. 4. Different data types are supported in POST, e.g. String, Numeric, binary. 5. Parameters are not saved in browser history 6. We can send the data generated by the user using POST |