DAY - 1 TASK **Date: 27/12/2023**

1. Write a blog on Difference between HTTP1.1 vs HTTP2 (HTTP - Hyper Text Transfer Protocol)

HTTP 1.1	HTTP 2
1 It works on the textual format.	1 It works on the binary protocol.
2 It compresses data by itself.	2 It uses HPACK for data compression.
3 It uses requests resources inlining for use getting multiple passes.	3 It uses PUSH frame by server that collects all multiple pages.
4 There is head of the line blocking all the requests behind it until it doesn't get its all resources.	4 It allows multiplexing, so one TCP connection is required for multiple requests.
5 There is a problem which is creating a persistent connection between server and client.	5 Using bottleneck layer partition the client and the server problem is resolved.
6 There are other problems, such as plain text header being sent that are large, especially when cookies are in use.	6 It enables client to prioritise, allowing more critical resources to be fetched and rendered first.
7 It doesn't offer a way to prioritise requests, which could lead to less critical resources blocking more important ones.	7 It relies on the same underlying protocol in order to operate : TCP.
8 In the document are likely various assets. things like images, stylesheets(CSS file), and javascript assets (js files).	8 In this it works differently using multiplexing the browser effectively requests the assets together. and then receives in same way.
9 These limitations often lead to inefficient use of network resources, as subsequent requests had to wait for the previous request to complete.	9 Server can proactively push resources to the clients cache before they requested, to reduce latency and improve overall user experience.
10 Lack of prioritization.	10 Improved in prioritization.