**Task 1, Day 1**

**Date 6th Jan 2021**

**Difference between HTTP/1.1 and HTTP/2**

**HTTP/1.1**

* + - The first standardized version of HTTP, HTTP/1.1 was published in early 1997, only a few months after HTTP/1.0.
    - In HTTP/1.1 the resource path can be saved and reused or reopened may times to display the resource document.
    - User can send 2nd request before the result of first request is fully transmitted to user.
    - Latency of communication is lesser compare to previous versions.
    - Cache controlled Mechanism is introduced in HTTP/1.1.
    - Since HTTP1.1 is extremely stable, this protocol has been used more than 15 years.
    - Programs like gzip have long been used to compress the data sent in HTTP messages, especially to decrease the size of CSS and JavaScript files.

**HTTP/2**

* + - HTTP/2 officially standardized in May 2015.
    - HTTPS/2 protocol is a binary protocol rather than text. It can no longer be read and created manually.
    - It is a multiplexed protocol. Parallel request can be handled over the same connection, removing the order and blocking constraints of the HTTP/1.x protocol.
    - It compresses headers. As these are often similar among a set of requests, this removes duplication and overhead of data transmitted.
    - It allows a server to populate data in a client cache, in advance of it being required, through a mechanism called the server push.
    - HTTP/2 can split headers from their data, resulting in a header frame and a data frame.