# Assignment II

Define the following protocols;

## Internet Protocol

Internet Protocol – or better known as IP – is a unique address that all computers, servers, phones etc. are required to have, to be able to connect and interact on the internet.
An IP address consists of 12 digits between 0 and 5 divided between 4 blocks of 3 digits and are either static (which means that they won’t change) or dynamic (Which means that the IP address will change when the computer etc. is turned back on)

As of 2015, the traditional IPv4 protocol is running out of new address because of the large number of devices online, this is why the newer IPv6 protocol is starting to be put into business – as it can feature a lot more devices, as of its billions of IP address.

There has been experiments with other protocols such as IPv7, IPv5 and IPv9. But IPv6 has beaten all of the other versions.
IPv9 was although only an experiment to be used in China but it was never activated.

## Ethernet

Ethernet was introduced back in the 80’s and was standardized in 83’.
It’s a group of technologies for both Local Area Networks (LAN’s) and Metropolitan Area Networks (MAN’s). Connections with wired cables (cat 5, 6 or 7) is used to connect with the Ethernet to then be able to use the World Wide Web.