1. How does client and server communicate? Explain why DNS is required?

Answer: The client requests the server for information on the address provided and the server responds to the requests by serving the data/information requested. A typical example would be a request made from the client [browser], requesting data/information from the server hosting the website/Information and the server responds by serving the browser with the requested page.

Server addresses are made up of numbers, which are difficult to remember. Domain name system provides us a way to map these IP addresses to names, which are in a more readable and easier to remember format.