Day 4

* TCP and UDP

Transmission control protocol (TCP) is a connection oriented protocol means once a connection has been established then only the data can be transmitted in two direction . The TCP has made to guarantee that the data has been delivered in the order it was sent. Transferring information like images, web pages.

When a web server send an HTML file to the client it used HYPER TEXT TRANSFER PROTOCOL to do so. The http ask the TCP layer to established a connection with the client and send the file. The TCP divides the data into packets and number them and then send them to ip layer for the delivery.

* UDP

User Datagram Protocol (UDP) is a transport layer protocol. Unlike TCP, it is unreliable and connectionless protocol. It means it does not established a connection to transfer the data. UDP is faster than TCP.

* Socket

A socket is an end point of two way communication link between the programs running on the network. A socket is bound with a port number so that TCP layers can identify where to send to data.An end point is the combination of ip address and portNumber.

Socket address is of 48 bit(PN-16bit and ipv4-32/ipv6-64)

* HTTP

HyperTextTranferProtocol (HTTP port no-8) Http itself is not reliable but use TCP to achieve reliability.Http is stateless it means it will not store the information about which user accesed it.

http allows us to transfer the data from the server to the client.

Http provide some standard rule to the web browser and the server, which they can use to communicate with each other.

* HTTPS

HyperText TransferProtocolSecure(HTTPS).The http does not provide the security to the data. Therefore we can say that with the help of https http provide the security to the data.This protocol allows transferring the data in encrypted form.The use of https is mostly required when we need to enter the bank account details.

* Rest API

Basically API is a software that allows to computer to communicate with each other over the internet through various devices.

so the request will send to server with the help of Api and then server get resonse to the Api and then Api send response to the user in the Json or an XMl formate.

The advantage of using rest is that it provide flexibility , so rest can handle multiple types of call

There are some methods of rest API GET,POST,DELETE,PUT.

* Graph ql

A graph ql is an query language for API,and a server type euntime for executing queries

It is designed by facebook.