

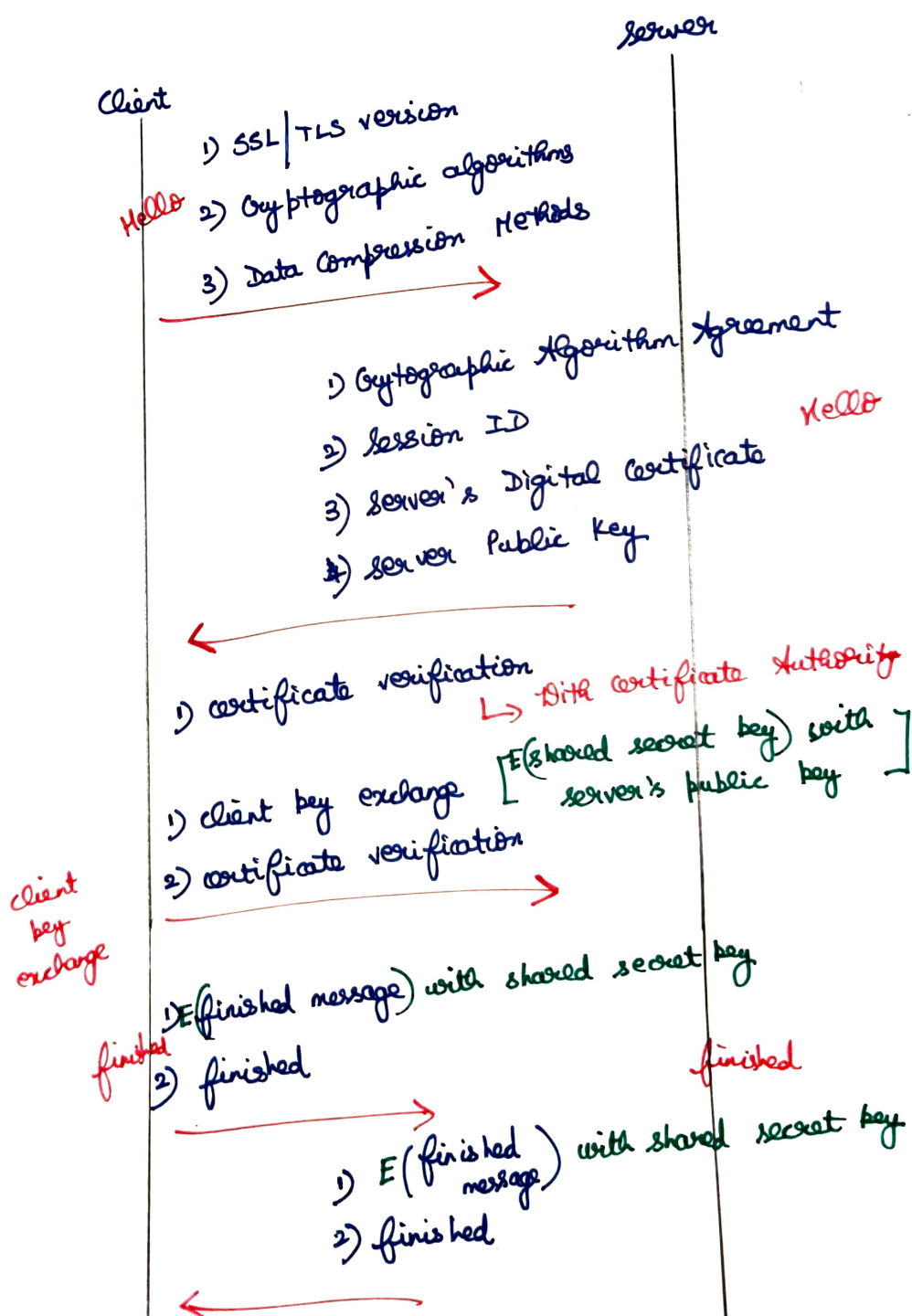
SSL Handshake Protocol

*) Most complex part of SSL

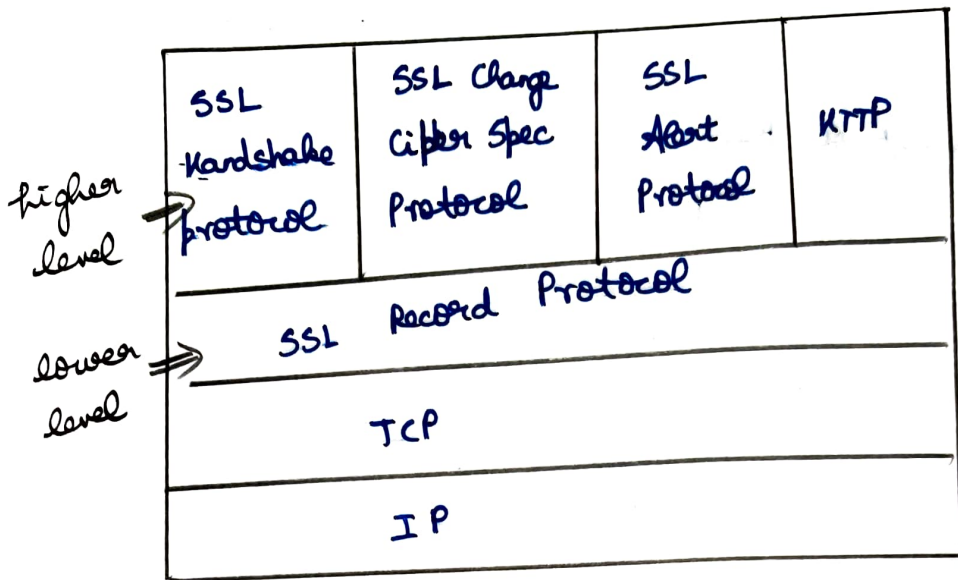
server & client } to authenticate each other and negotiate

- ↳ encryption
- ↳ MAC algorithms
- ↳ Cryptographic Keys

*) This is used before an application data is sent.

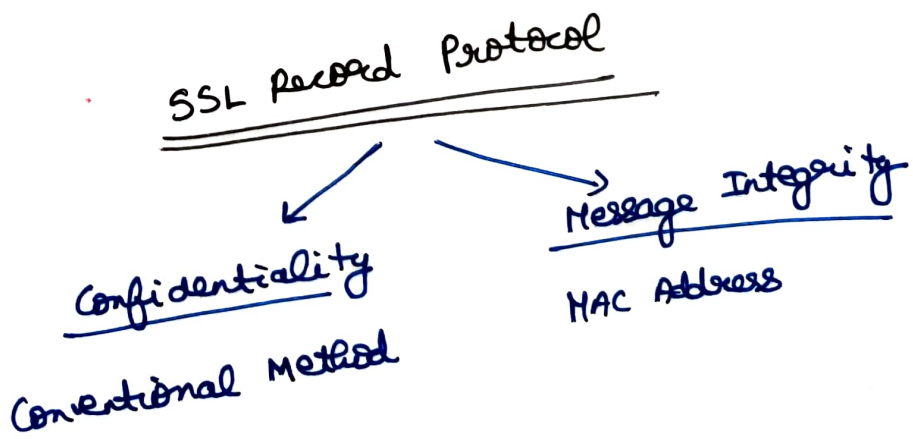


SSL Protocol Stack



SSL Change Cipher spec Protocol } Notifies the receiver that all the subsequent packets are to be protected based on negotiated cipher suite & key

SSL Alert protocol } *) Sends the alert messages to the receiving party.
*) Alert Message
 ↓ contains
 Alert severity level & a description



Application Data

Fragments

Compress

Add MAC

Encrypt

Append

SSL record Protocol

