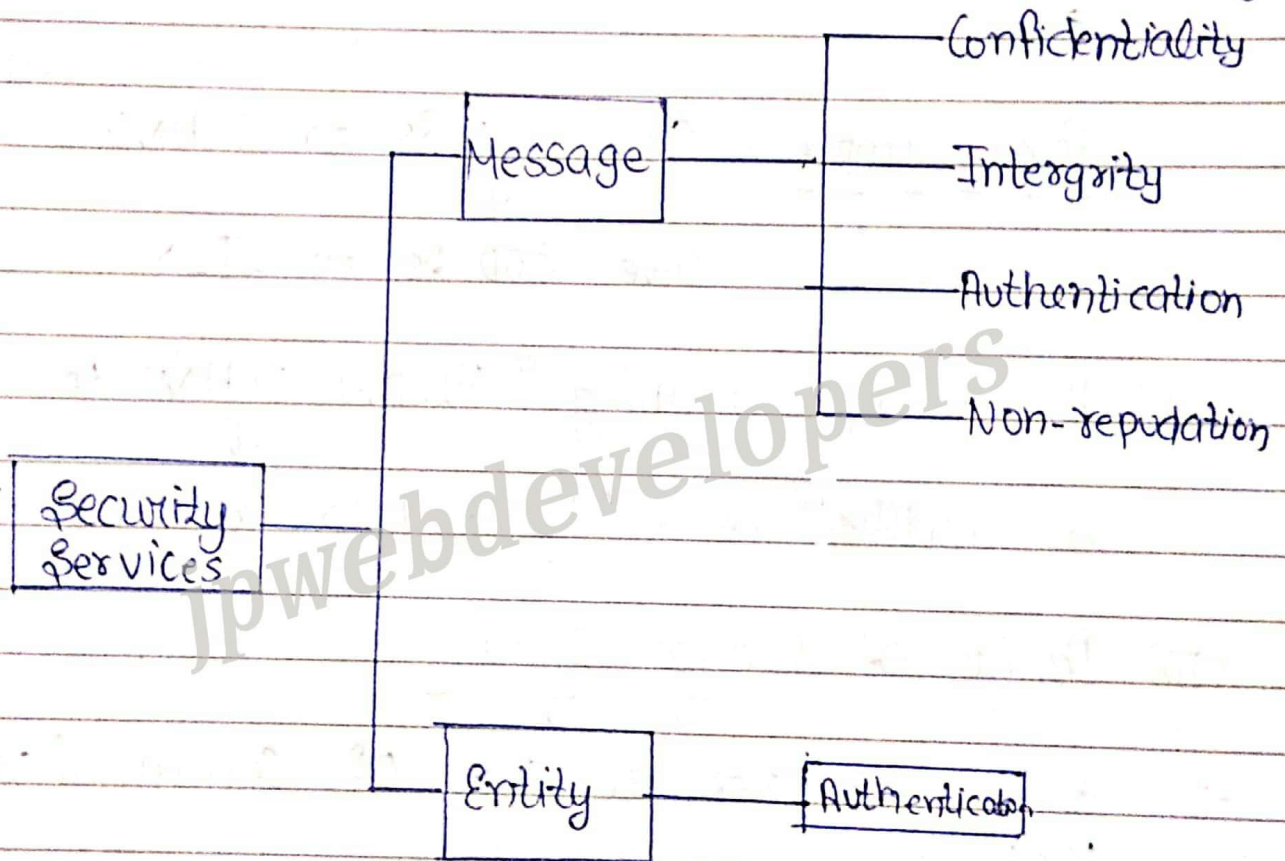


Topic-2

* Security Services :-

Network Security can provide following services related to a message and entity



(i) Message Confidentiality :-

→ It means that the content of a message when transmitted across a network must remain confidential.

→ It is important for sensitive data such as credit card.

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(ii) Message Integrity:-

→ Message Integrity must Prevents the active attacks.

→ There must be clear that no one has added, deleted or modified any part of message.

(iii) Message Authentication:-

→ In message authentication the receiver needs to be sure of the sender's identity i.e. the receiver has to make sure that the actual sender is the same as claimed to be.

(iv) Message non-repudiation:-

→ Non-repudiation is achieved by authentication and integrity mechanism.

→ It means that a sender must not be able to deny sending a message that is actually sent.

(v) Entity Authentication:-

→ The entity or user is verified prior to access to the system resources.