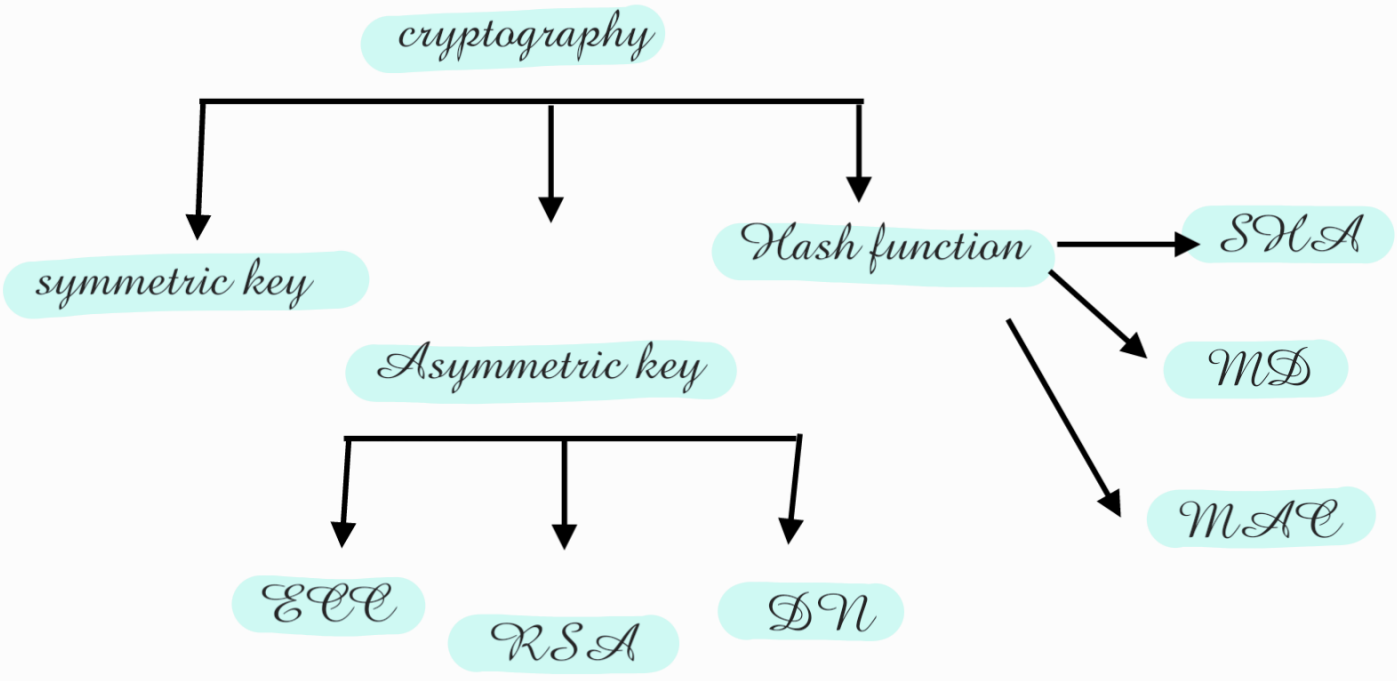
outcomes -

- various cryptographic techniques to be learn
- apply to concept of number theory
- demonstrate various kinds of attacks, vulnerability cryptographic solutions
- detect possible threads

1. what is the need of security?
2. How to provide this security
   - data security - cryptography
   - encrypt and decrypt
3. basics of various securities
4. what is CIA ? → confidentiality, integrity, availability
5. hash function - cryptographic checksum
6. classical encryption processes
7. How to convert simple text to cyber text
8. mathematical foundations
9. What is digital certificate?
10. digital signature algorithm
11. what is private key and public key?
12. network security aspects - firewalls design principles
13. what is SSL ?



assignment-1 :

design and implement your own encryption / decryption algorithm which is used for securing communications between server and client.

in between 4 august to 10 august