**The project will contains all the following algorithms:**

* **S\_AES**: is the algorithm trusted as the standard by the U.S. Government and numerous organizations.
* **Rc4**: is a **stream cipher** and variable length key algorithm. This algorithm encrypts one byte at a time (or larger units on a time)
* **RSA**: Is an algorithm used to encrypt and decrypt messages on modern computers Contains private and public key. Everybody knows the public key- it is used to encrypt messages. Encrypted messages can only be decrypted using the private key.
* **Diffie-Hellman** A means of sharing cryptographic keys securely over a public channel Used for accessing a variety of Internet services. It forms the basis for a number of authenticated protocols and is used to ensure confidentiality in the ephemeral modes of Transport Layer Security .
* **ELGAMAL**: is an public-key cryptosystem. It uses asymmetric key encryption for communicating between two parties and encrypting the message.

























