**Tutorial 0. Public-Key Cryptography Standard(PKCS)**

PKCS Owned by RSA and motivated to promote RSA, created in early 1990’s, numbered from PKCS#1 to PKCS#15.

PKCS7 are encoded in Base64 encoding and they are used to store a public key in a file CERTIFICATE.p7b or .p7c as the file extension.

PEM(privacy-enhanced mail), contain ASCII (or Base64) encoding data and the certificate files can be in .pem, .crt, .cer, or .key formats.