

Sign/Encrypt Files - Kleopatra

## Sign / Encrypt Files

Prove authenticity (sign)

☒ Sign as: ✓ Cliona Hayden <C00225401@itcarlow.ie> (certified, created: 22/03/2021)

Encrypt

☒ Encrypt for me: ✓ Cliona Hayden <C00225401@itcarlow.ie> (certified, created: 22/03/2021)

☒ Encrypt for others: mmad Alhourani <C00227505@itcarlow.ie> (not certified, OpenPGP, created: 22/03/2021)


☐ Please enter a name or email address...

☐ Please enter a name or email address...

☐ Encrypt with password. Anyone you share the password with can read the data.

Output

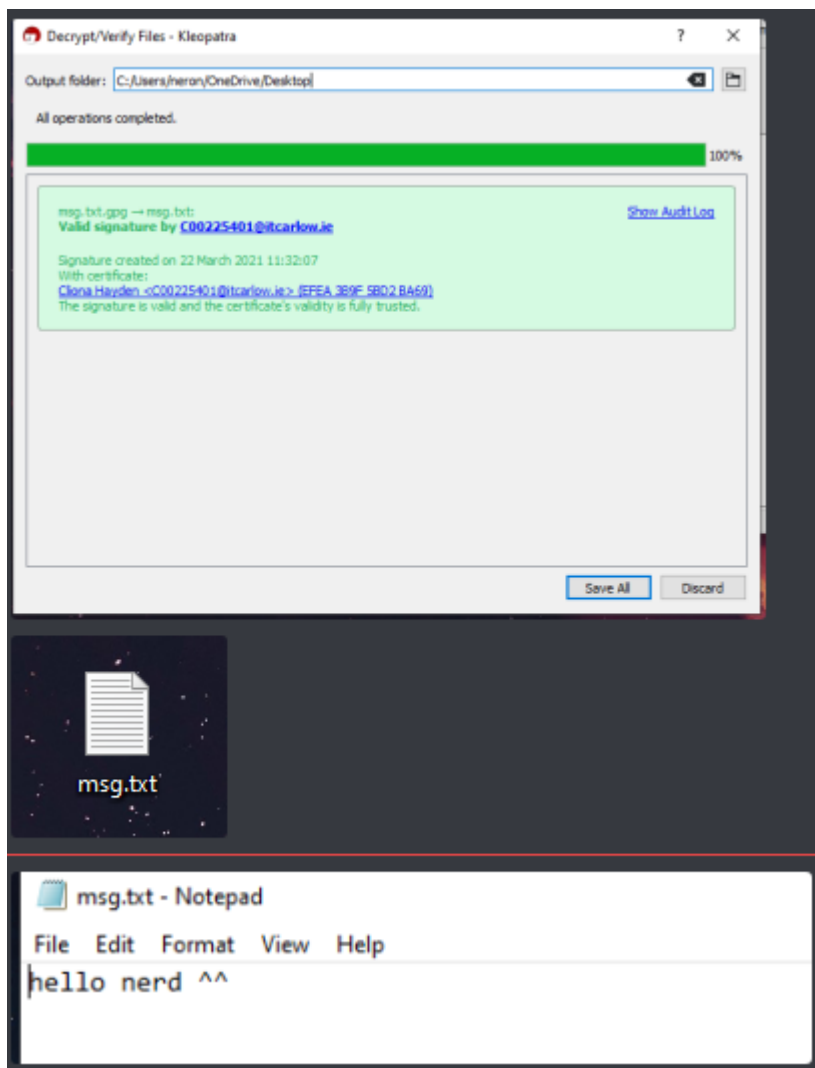
☐ Encrypt / Sign each file separately.



**Sign / Encrypt** Cancel



Above are screenshots of me encrypting a simple text file to be sent.



Above are screenshots of Mohammad decrypting the received file

## Part 2: Example

$$P = 13$$

$$Q = 53$$

$$N = (13)(53) = 689$$

$$Z = (13-1)(53-1) = 624$$

$$E = 5$$

$$D = 125$$

Encrypt:

Letter	M	$M^e$	$C = m^e \bmod n$
K	11	161051	514

Decrypt:

C	$C^d$	$M = c^d \bmod n$	Letter
514	741976028....	11	K