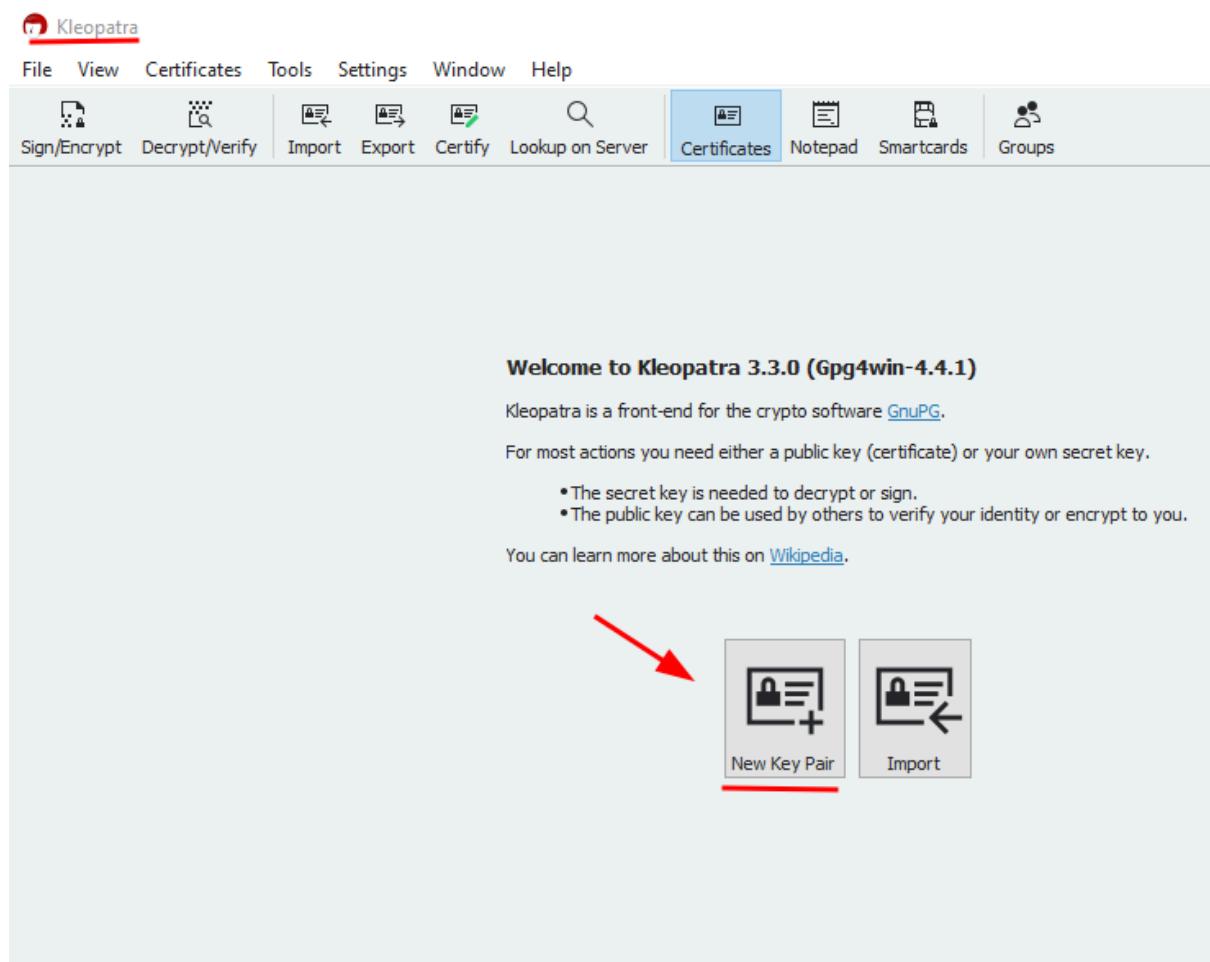
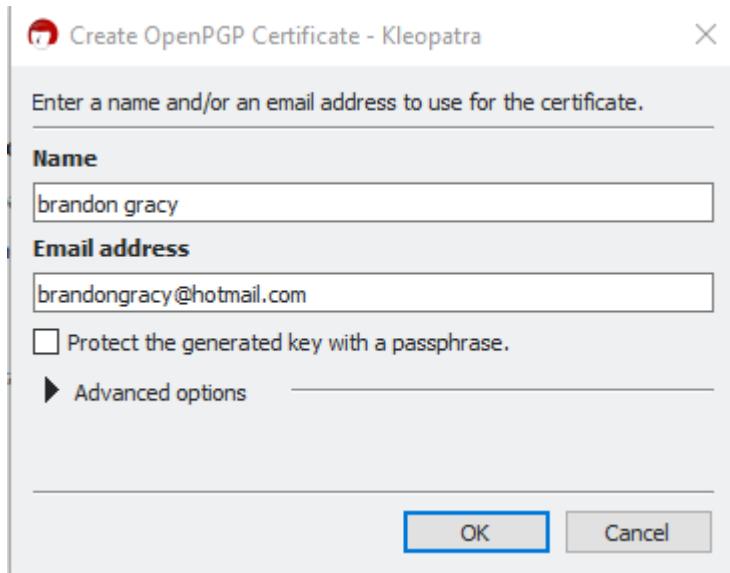


Today we are going to see how to use an asymmetric encryption solution for text, email, files, directories, and disk partitions.

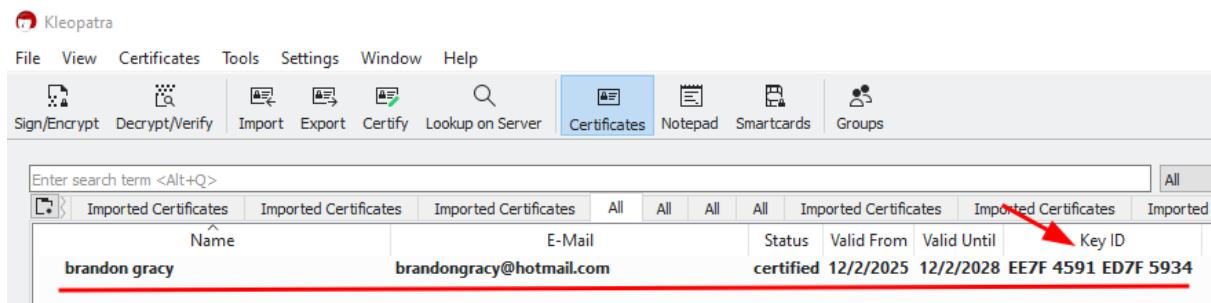
For this assignment, we didn't create virtual machines. my college Miguil was using Ubuntu OS, and i am using Windows OS. we decide to generate our own key, after verifying each other key, we encrypted the files using the other person's public key. This approach ensured two core security pillars: Confidentiality and Integrity.



Let's start downloading the app Kleopatra, it will be our software that will encrypt and decrypt our files.

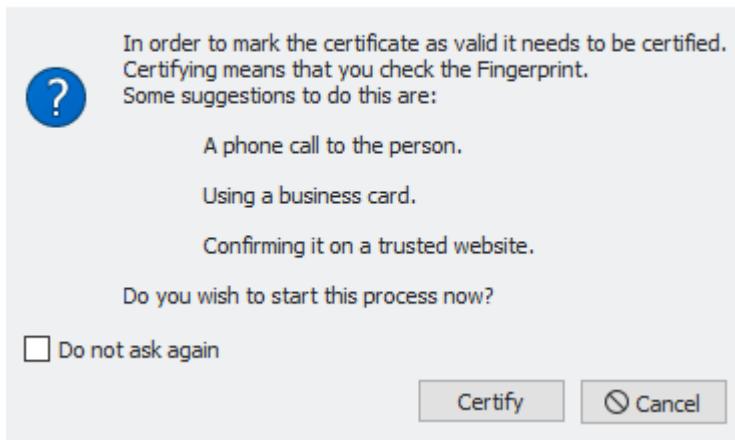


Here, we have to put our email and name, to create both the keys.

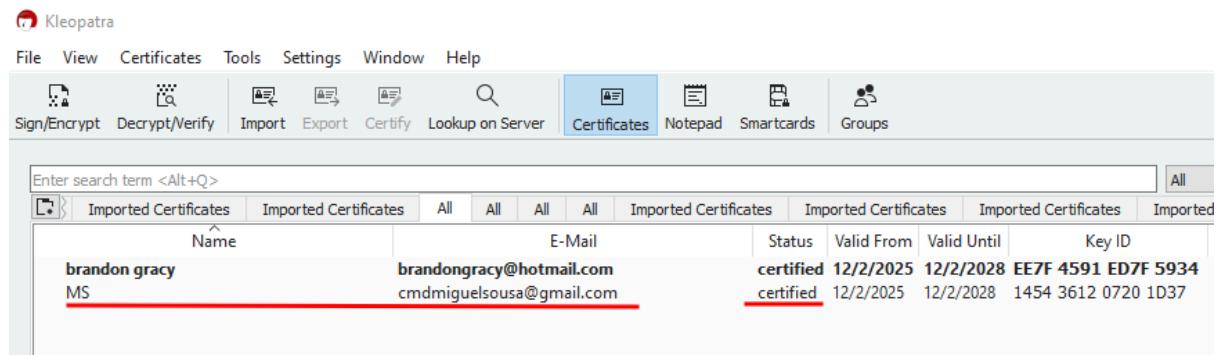


That's the place where we have to put our college's key, to encrypt some file with a key that belongs to him, he will send the key to me.

 You have imported a new certificate (public key) - Kleopatra... 



We have to certificate this key to encrypt the file to send to him.



Kleopatra

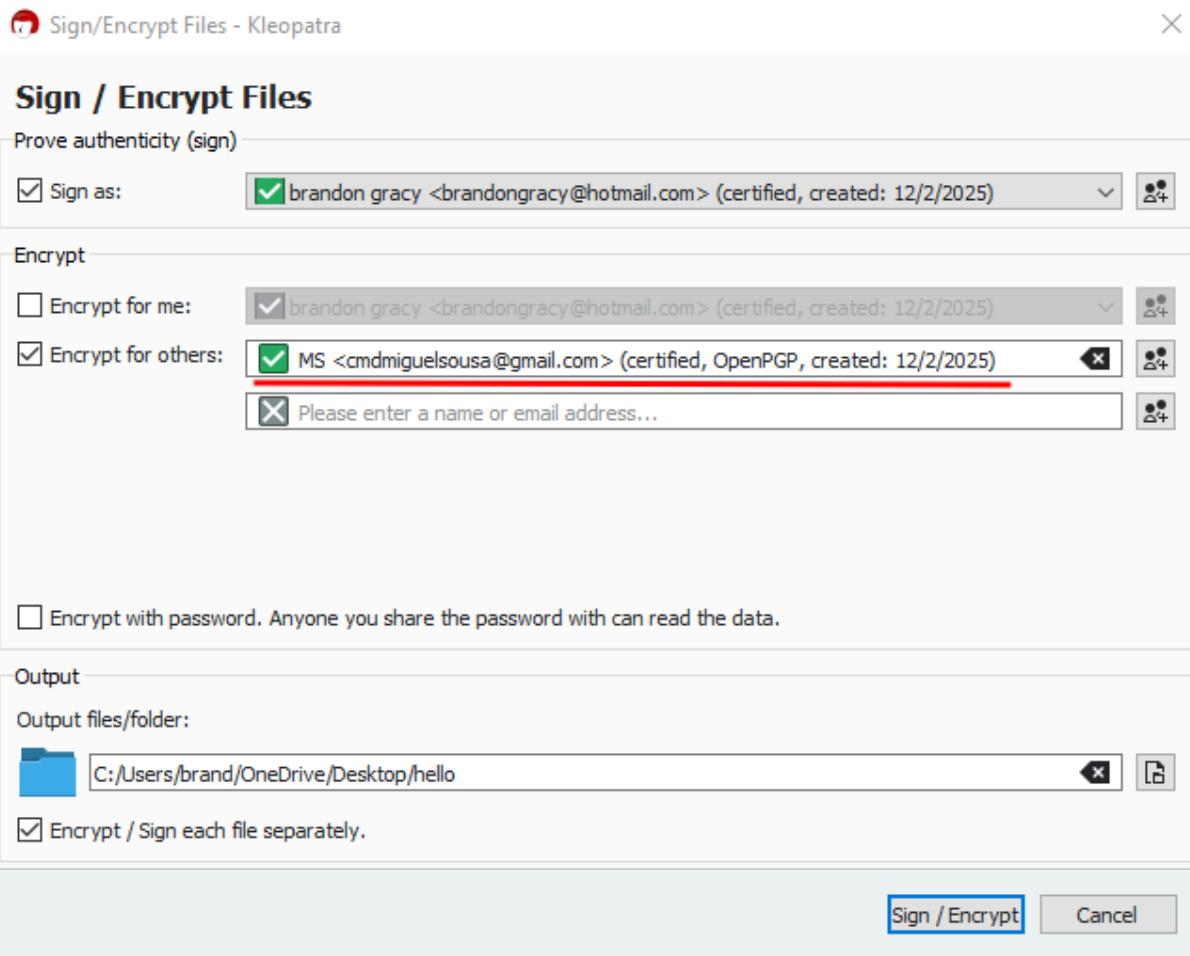
File View Certificates Tools Settings Window Help

Sign/Encrypt Decrypt/Verify Import Export Certify Lookup on Server Certificates Notepad Smartcards Groups

Enter search term <Alt+Q>

Name	E-Mail	Status	Valid From	Valid Until	Key ID
brandon gracy MS	brandongracy@hotmail.com cmdmiguelosusa@gmail.com	certified certified	12/2/2025 12/2/2025	12/2/2028 12/2/2028	EE7F 4591 ED7F 5934 1454 3612 0720 1D37

Now we can see the public key that belong to our college.



Now, let's encrypt some file with his key and send it to him.

**Results**

Status and progress of the crypto operations is shown here.

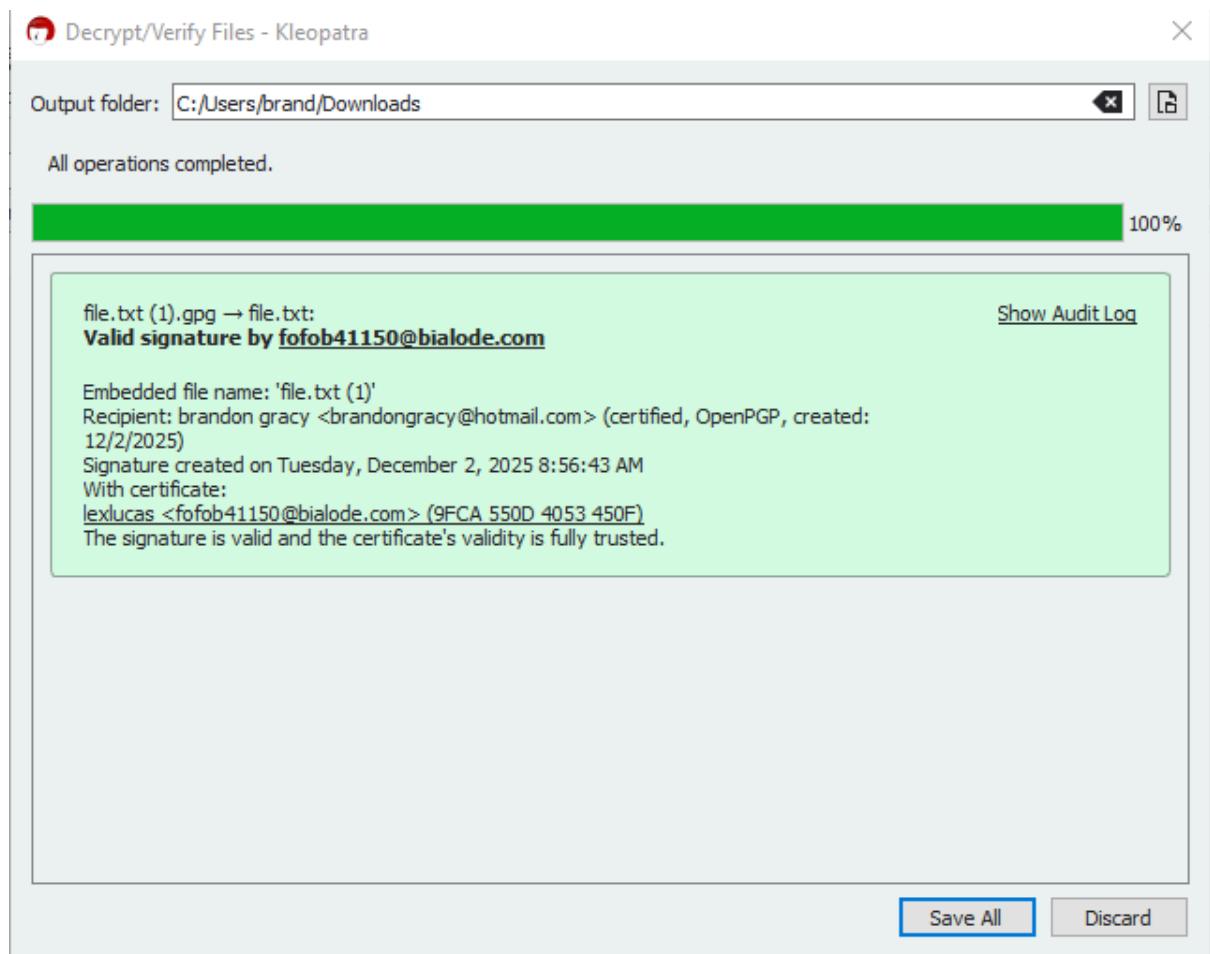
OpenPGP: All operations completed.

file.txt → file.txt.gpg: **Signing and encryption succeeded.**

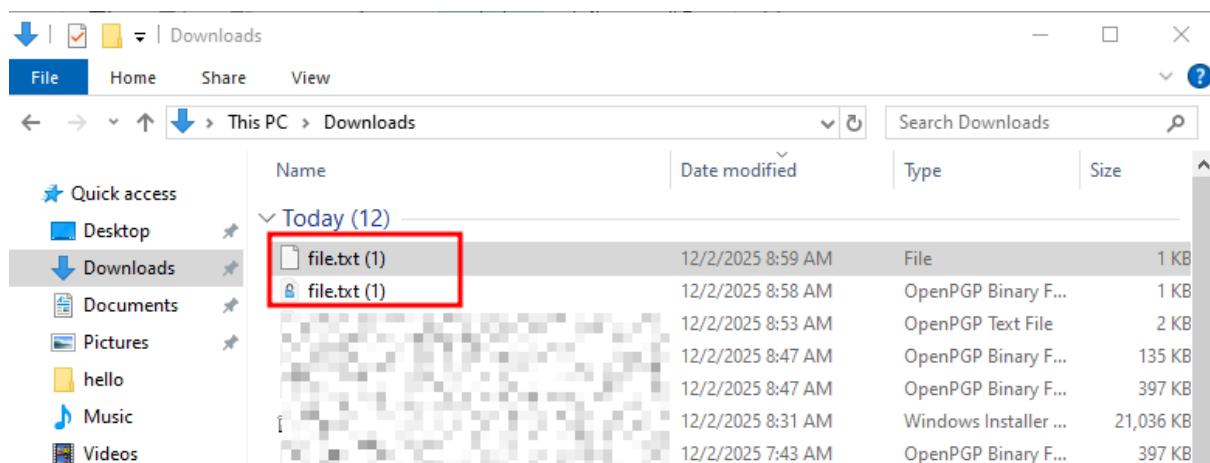
**Finish**

**Cancel**

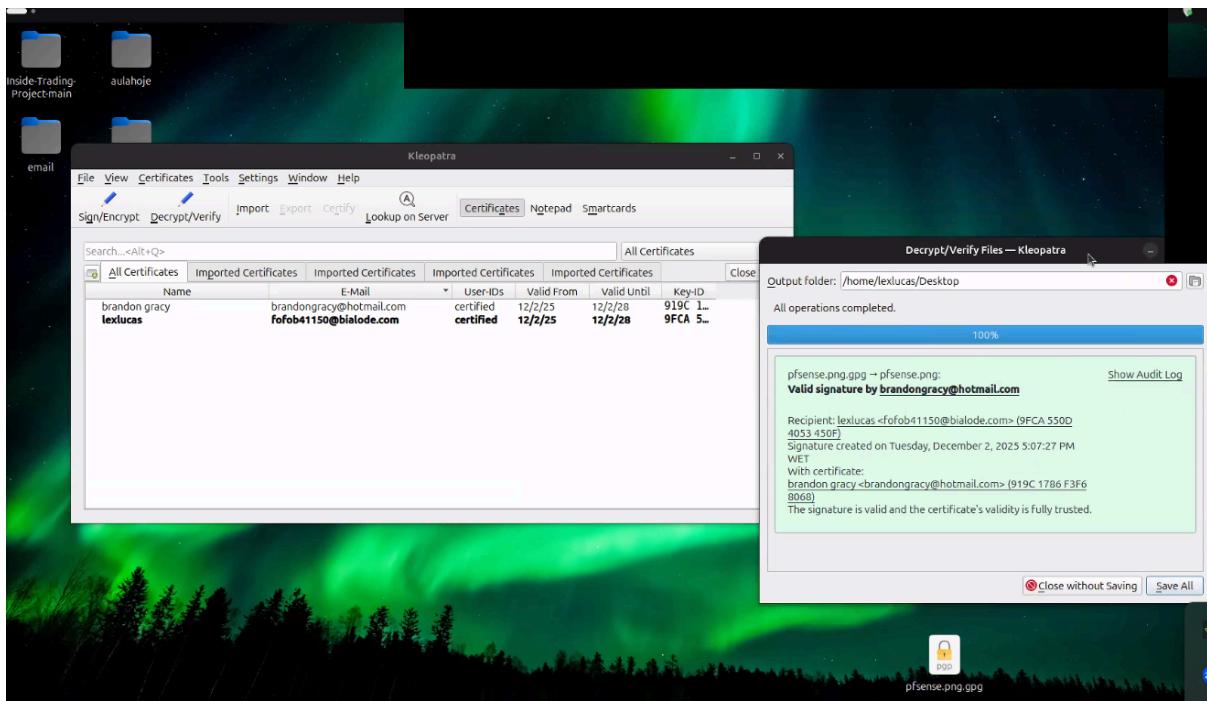
Now, it's already encrypted, we just have to send it to him, and he will be able to decrypt with his private key.



Here we can check that we decrypt one file sand by our college with the college's public key that he did sand to us before.



Now, the file can be read, because it is decrypted.



That's a picture by my college's computer showing that he got decrypt the file that i sand to him.