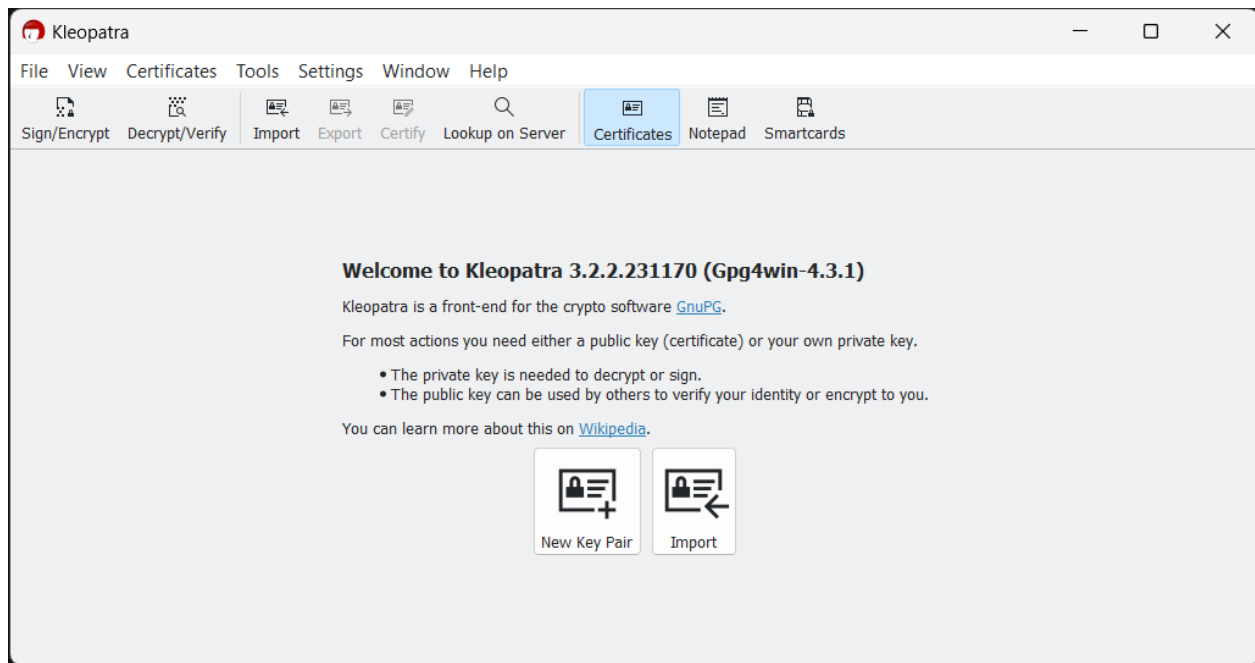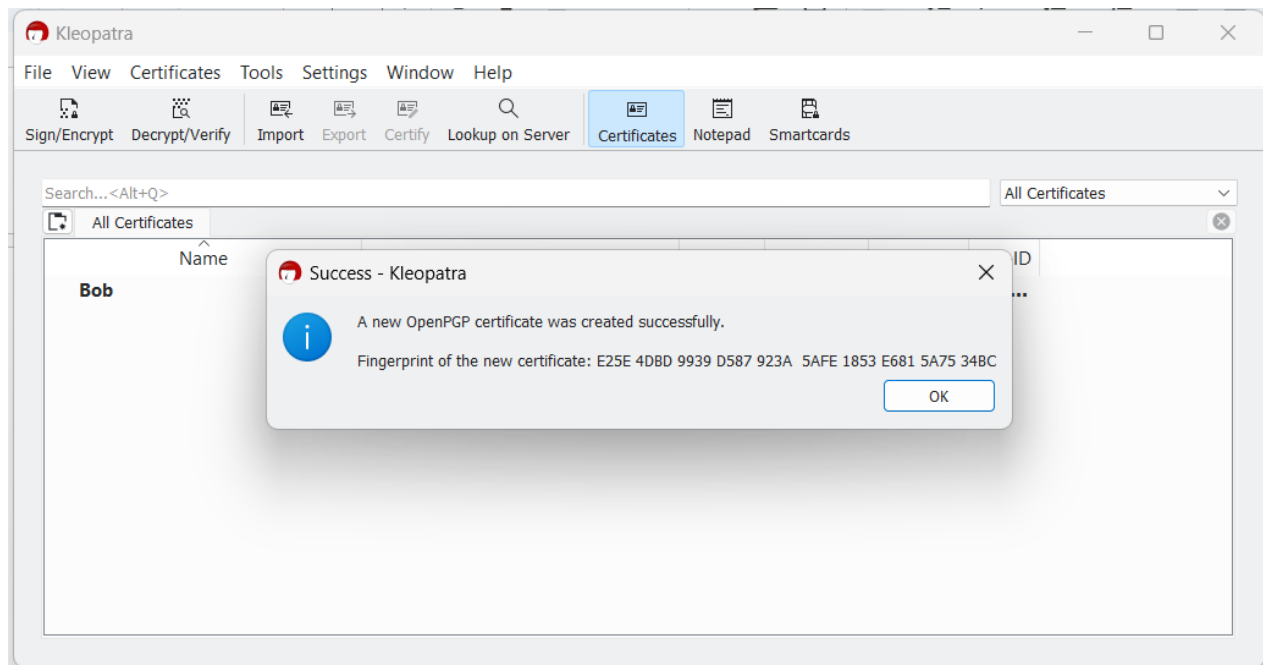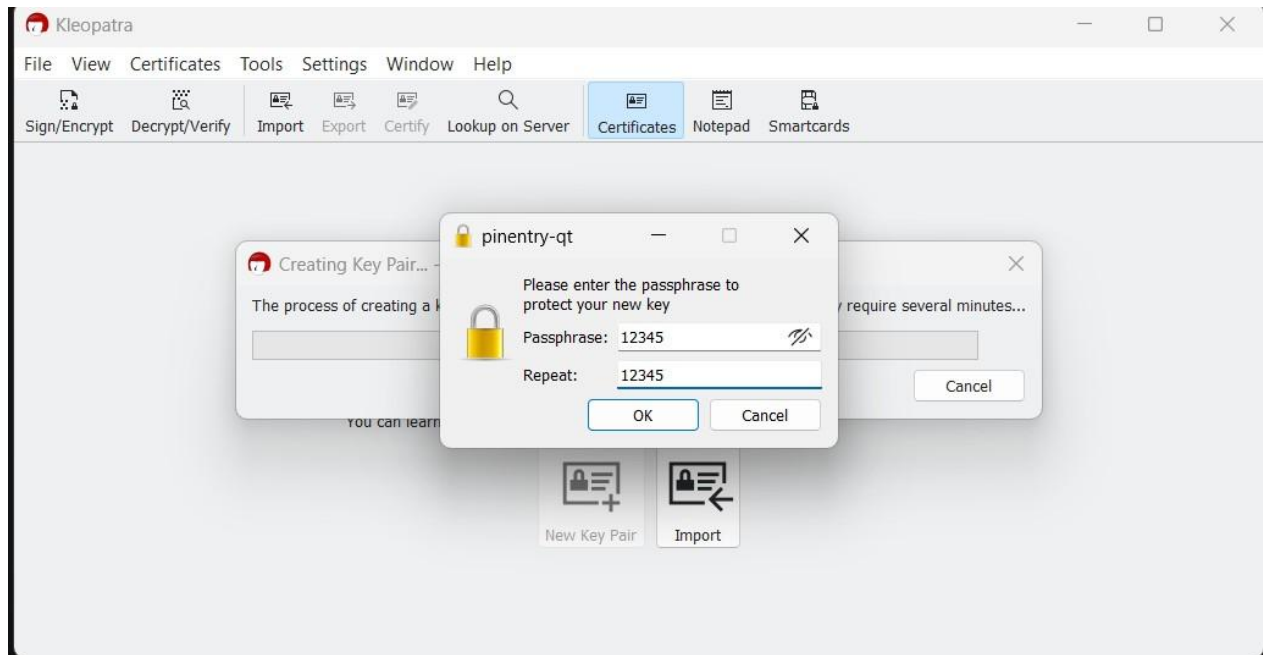**Name:** Adwait Purao
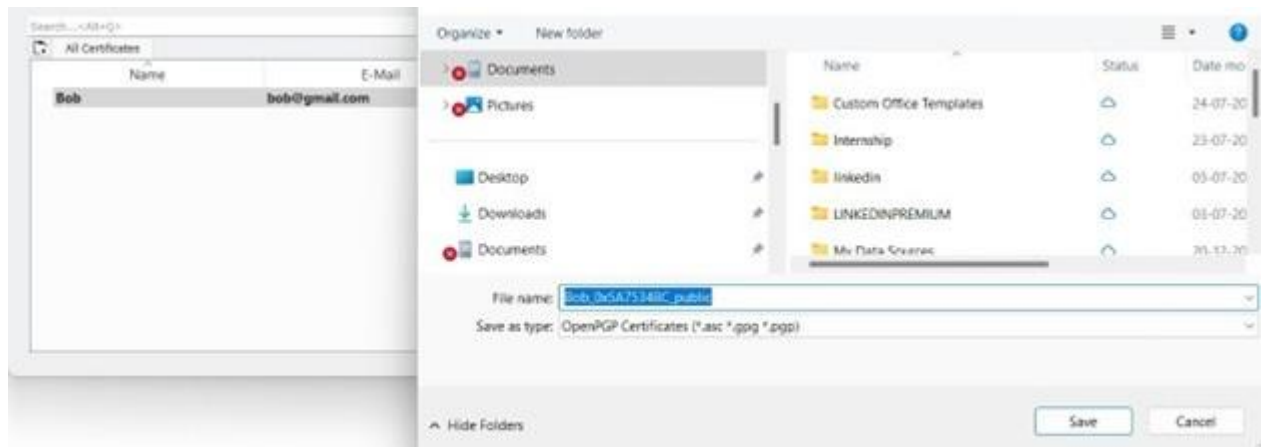**UID:** 2021300101
Batch: 5

Install and run Kleopatra

1. Create a new key pair
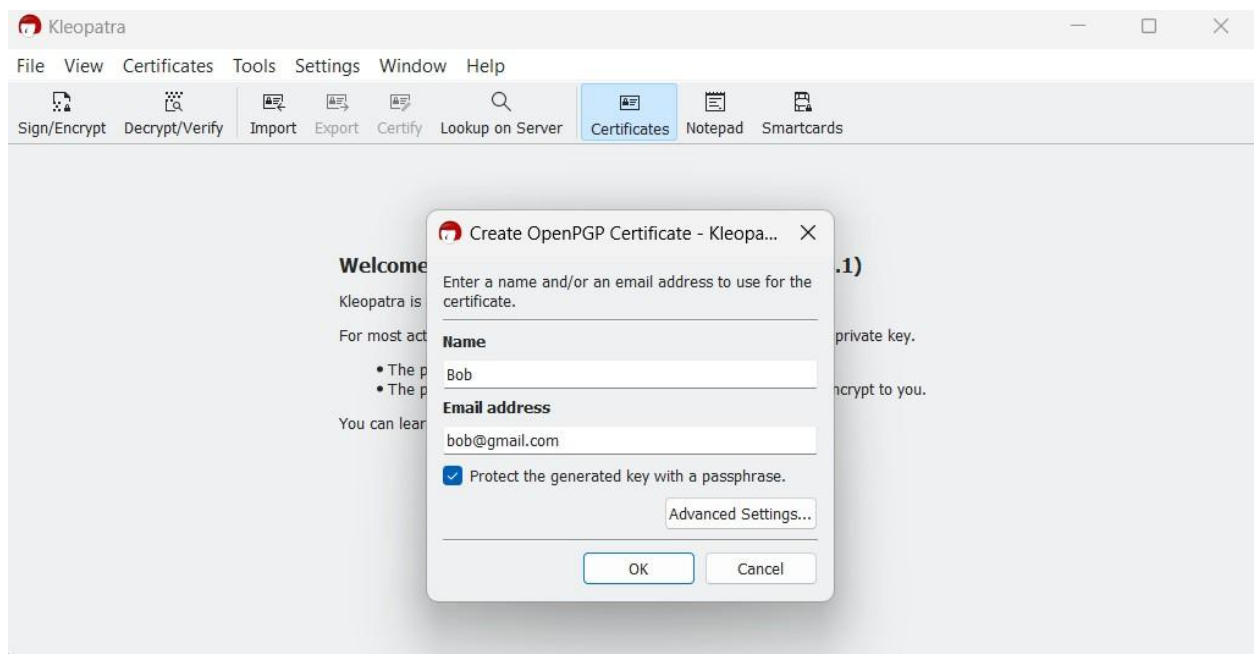
2. Export the file

3. Backup the file
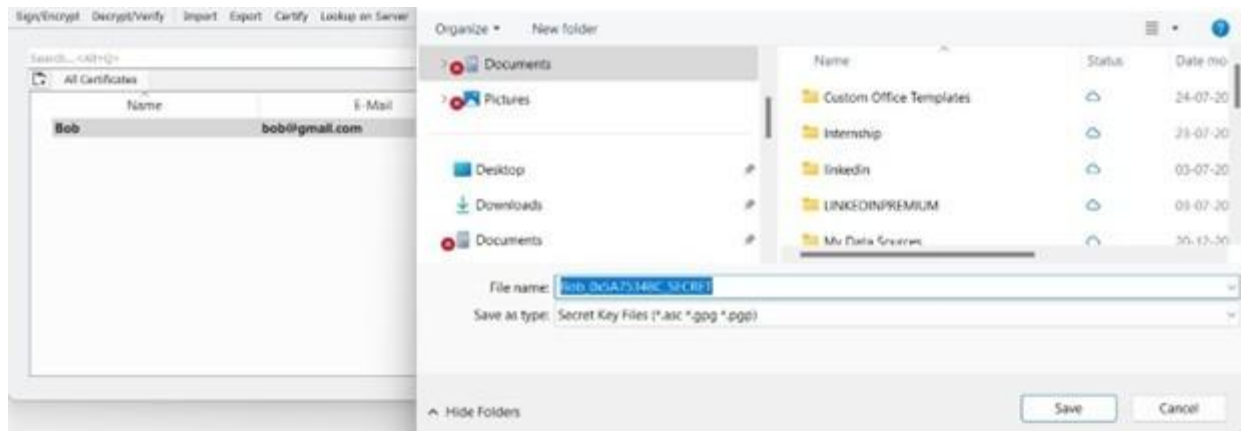
4. Take a look at Bob's public and private key

5. Similarly generate Alice's key pair and export and backup public and private keys
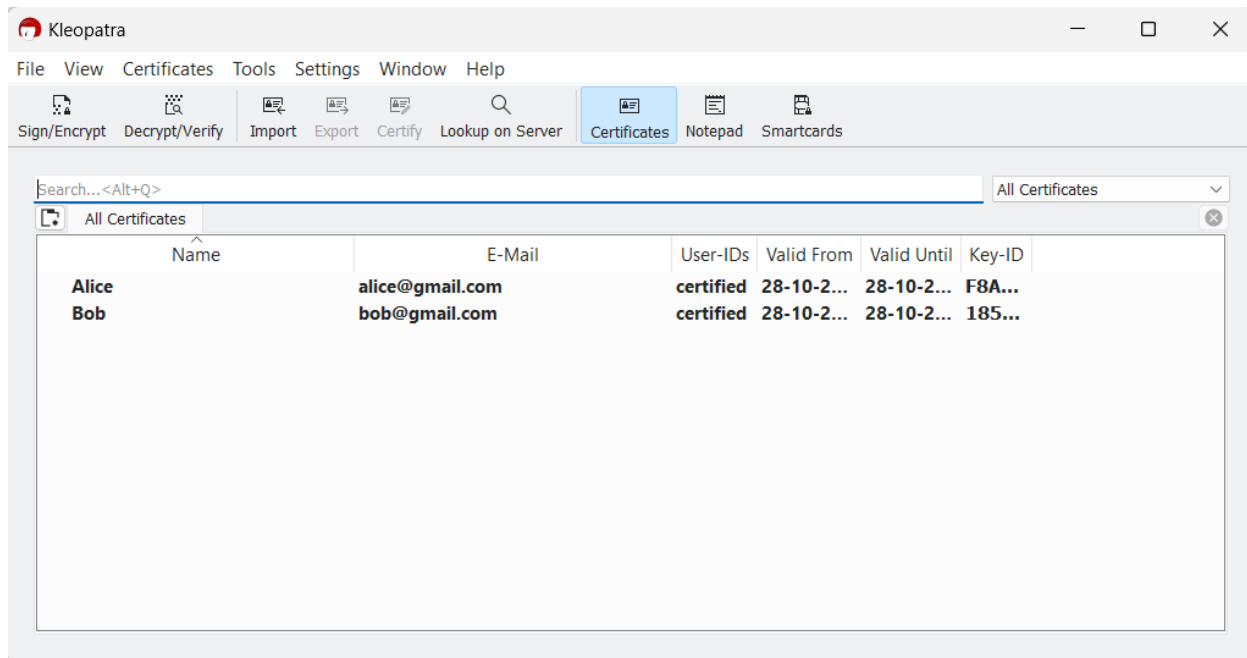
6. Take a look at Alice's public and private key
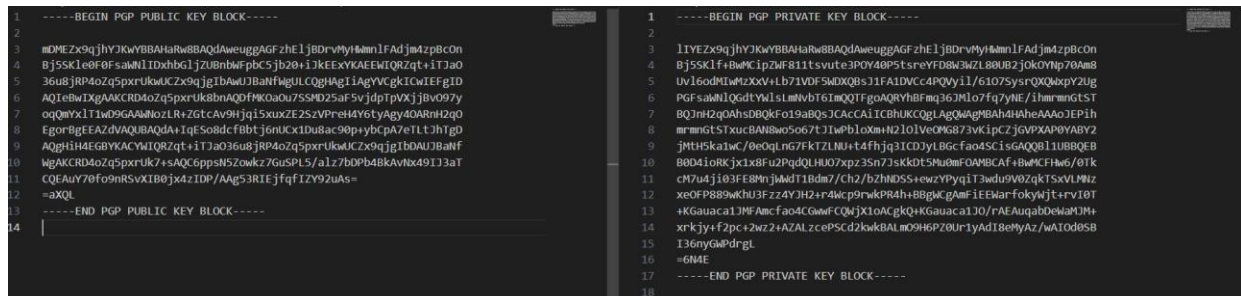
7. Now to communicate with Alice, copy public key of Alice paste into notepad and click import notepad.
8. After that add a custom message
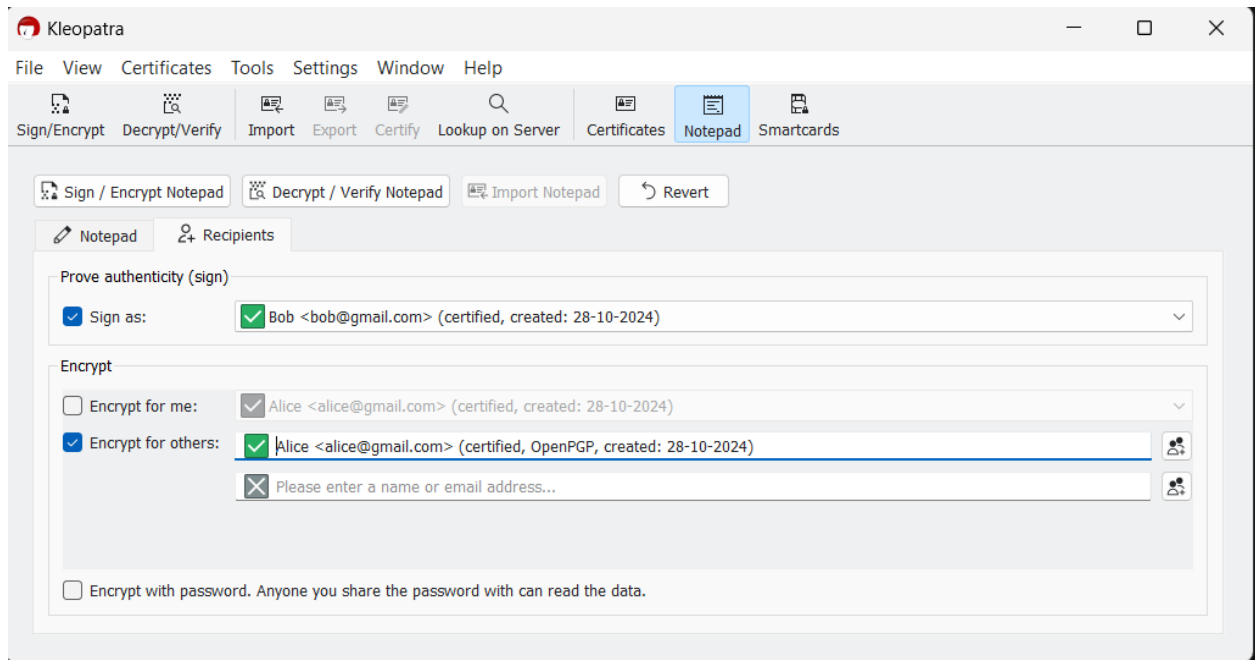
9. Sign and Encrypt Notepad
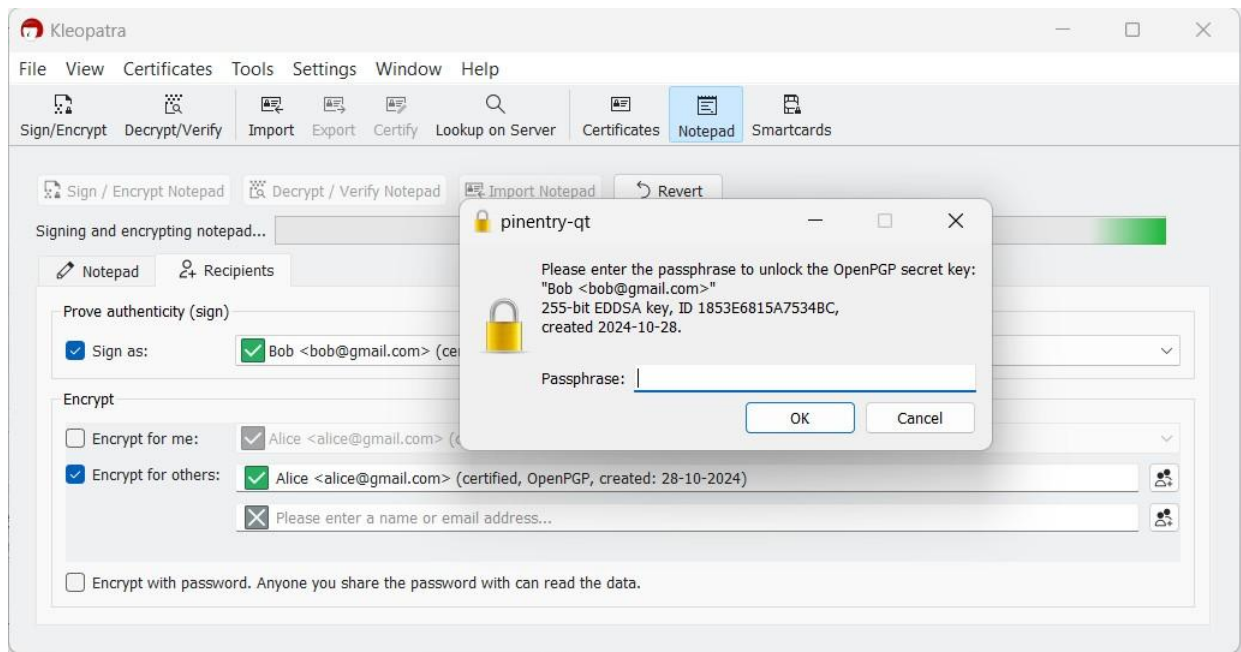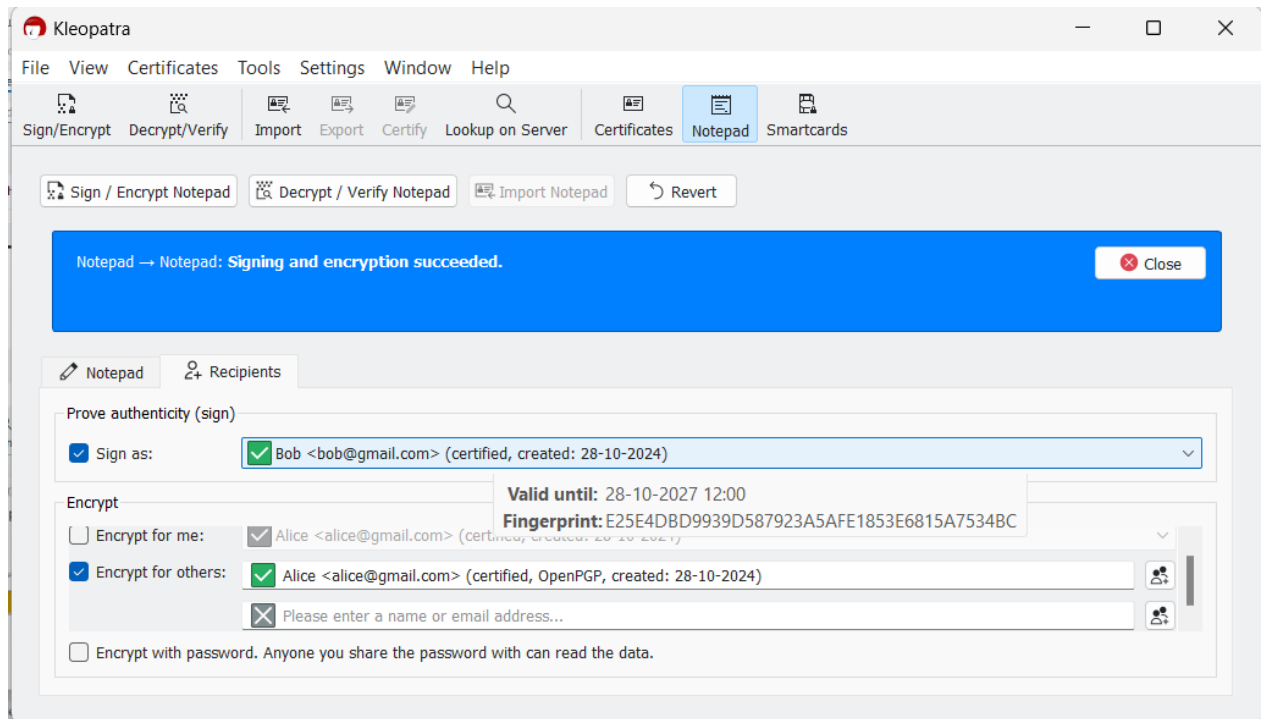
10. Copy the sent encrypted message in a text file
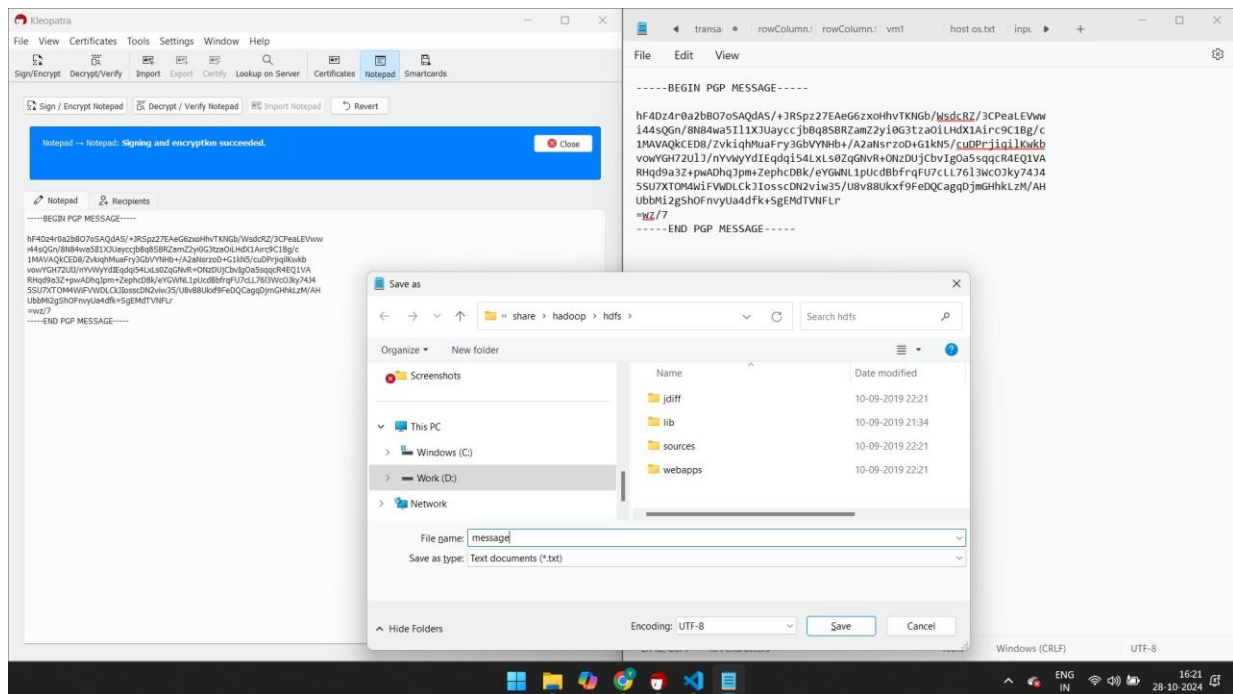
11. Now we have sent an encrypted message to Alice which can be seen only by Alice using her private key. Sign in as Alice
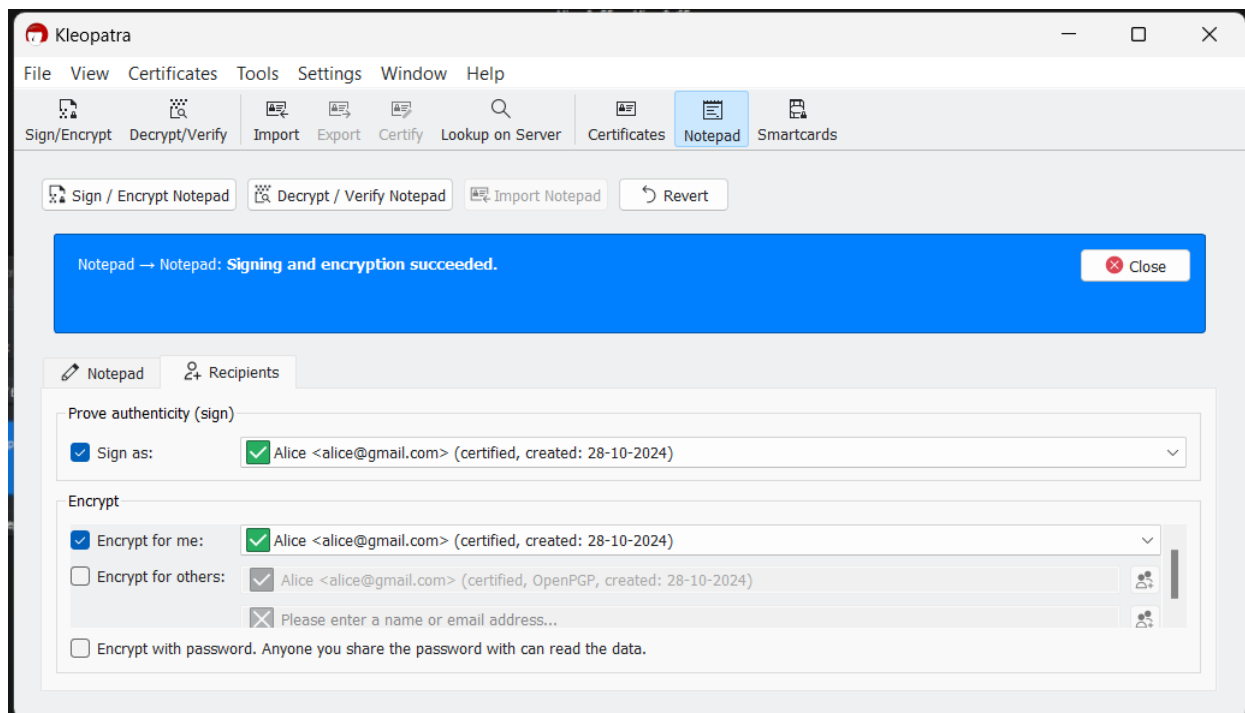
12. Decrypt the message using Alice's Private key. Paste the copied message from the notepad and click on Decryp message button

Kleopatra

File View Certificates Tools Settings Window Help

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

Sign / Encrypt Notepad   Decrypt / Verify Notepad   Import Notepad   Revert

Notepad → Notepad: **Signing and encryption succeeded.**   Close

Notepad   Recipients

```
-----BEGIN PGP MESSAGE-----

hF4Dz4r0a2bBO7oSAQdAS/+JRSpz27EAeG6zxoHhvTKNGb/WsdcRZ/3CPeaLEVww
i44sQGn/8N84wa5Il1XJUayccjbBq8SBRZamZ2yi0G3tzaOiLHdX1Airc9C1Bg/c
1MAVAQkCED8/ZvkiqhMuaFry3GbVYNHb+/A2aNsrzoD+G1kN5/cuDPrjiqilKwkb
vowYGH72UlJ/nYvWyYdIEqdqi54LxLs0ZqGNvR+ONzDUjCbvIgOa5sqqcR4EQ1VA
RHqd9a3Z+pwADhqJpm+ZephcDBk/eYGWNL1pUcdBbfrqFU7cLL76l3WcOJky74J4
5SU7XTOM4WiFVWDLCkJIosscDN2viw35/U8v88Ukxf9FeDQCagqDjmGHhkLzM/AH
UbbMi2gShOFnvyUa4dfk+SgEMdTVNFLr
=wz/7
-----END PGP MESSAGE-----
```

Kleopatra

File View Certificates Tools Settings Window Help
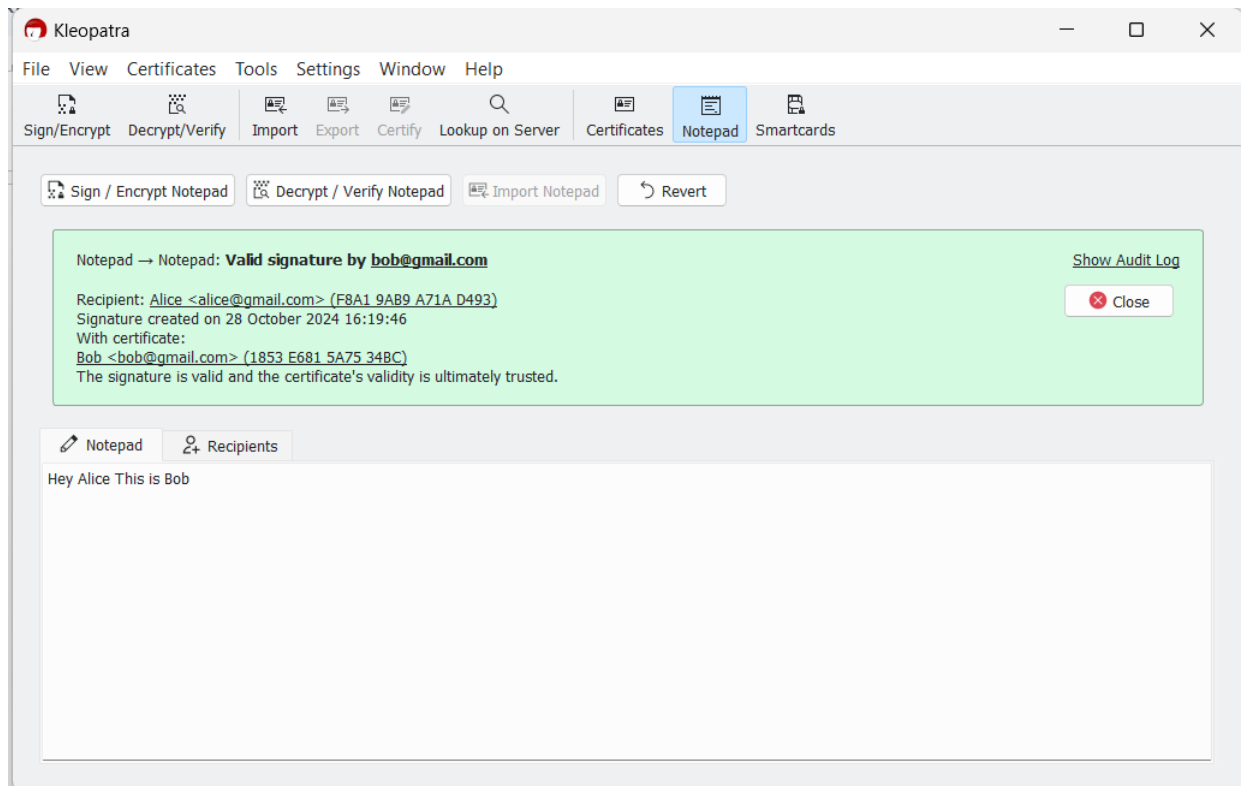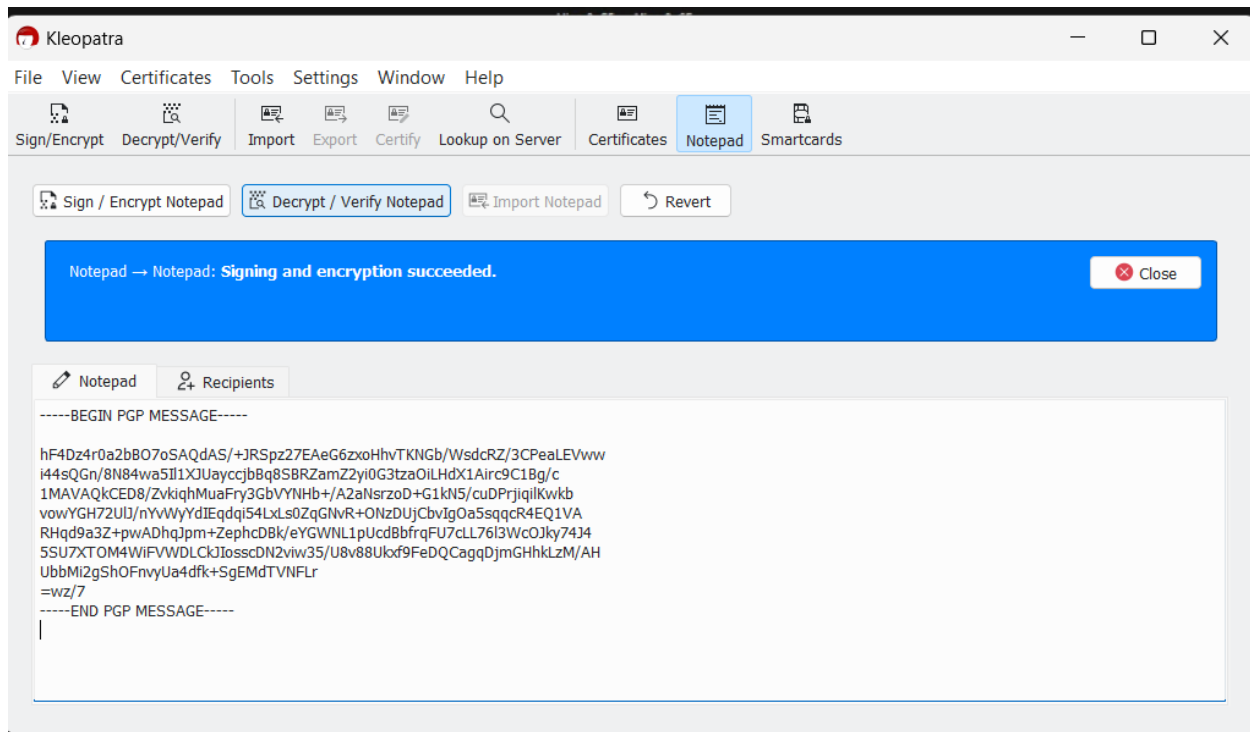
Sign/Encrypt   Decrypt/Verify   Import   Export   Certify   Lookup on Server   Certificates   Notepad   Smartcards

Sign / Encrypt Notepad   Decrypt / Verify Notepad   Import Notepad   Revert

Notepad → Notepad: **Valid signature by bob@gmail.com**   Show Audit Log

Recipient: Alice <alice@gmail.com> (F8A1 9AB9 A71A D493)   Close
Signature created on 28 October 2024 16:19:46
With certificate:
Bob <bob@gmail.com> (1853 E681 5A75 34BC)
The signature is valid and the certificate's validity is ultimately trusted.

Notepad   Recipients

Hey Alice This is Bob

13. We are able to successfully decrypt the message certified by Bob and encrypted using Alice's public key using Alice's private key.
Thus Bob is able to successfully send Alice encrypted message using PGP.