

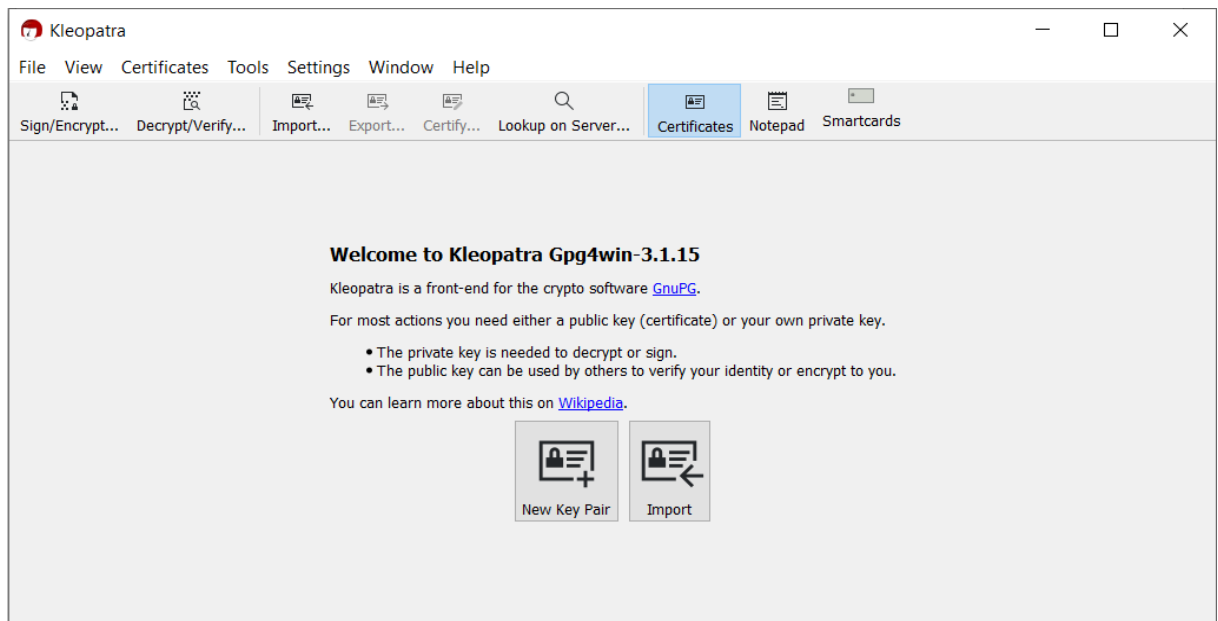
HACETTEPE UNIVERSITY DEPARTMENT OF
COMPUTER ENGINEERING
BBM 456 HOMEWORK 6



Mehmet Taha USTA – 21527472

Subject: Download and Install PGP. Create Encrypted
and signed message traffic. Prepare 3-4 page report
with screenshot

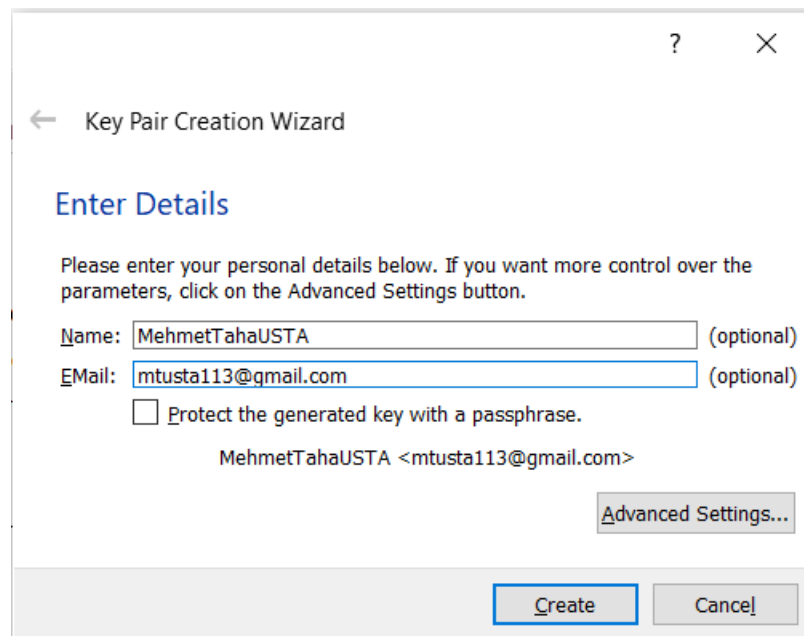
1) Kleopatra program must be installed for Windows



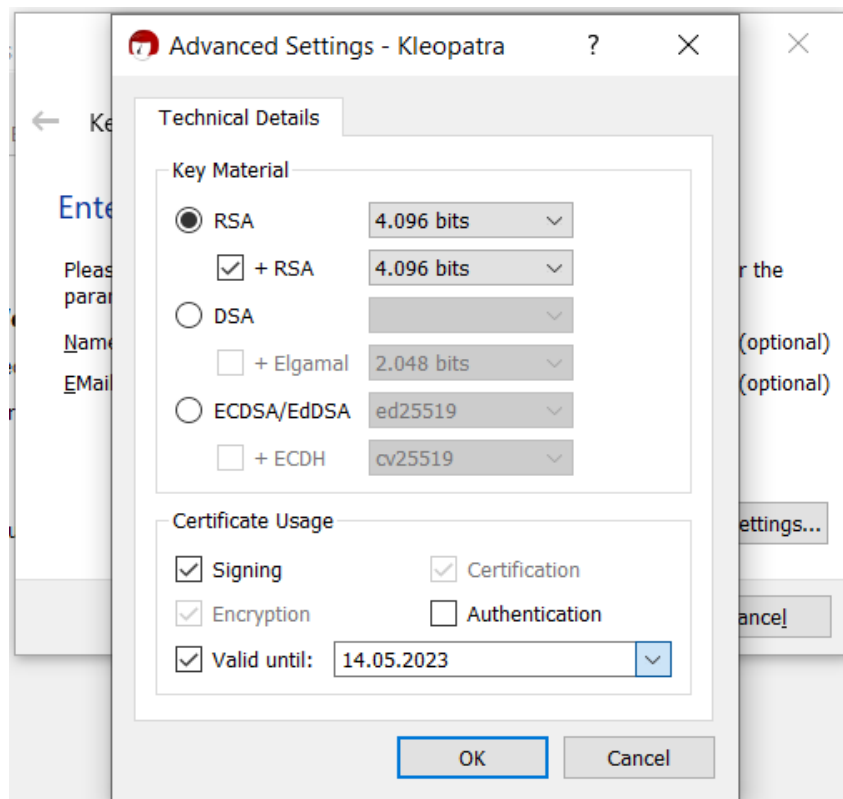
2) Encryption

2.1) New Key Pair

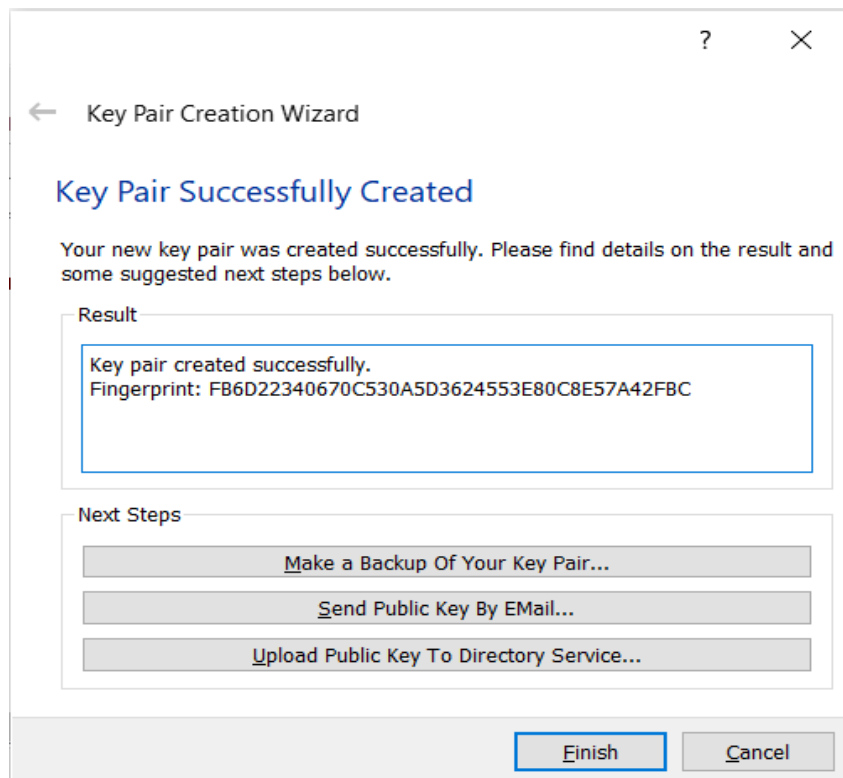
In Encryption, we first need to generate our keys by pressing the New Key Pair button.



2.2) Key Pair Settings



2.3) Generated Keys



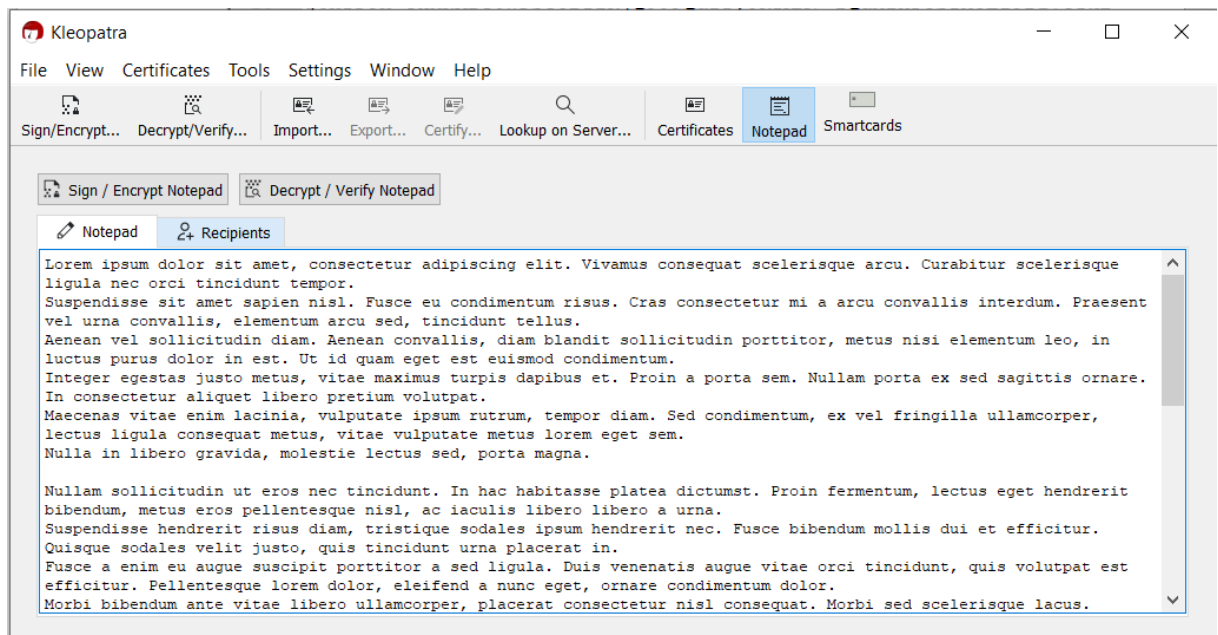
2.4) Exported Public Key

```
1 -----BEGIN PGP PUBLIC KEY BLOCK-----
2 Comment: User-ID: MehmetTahaUSTA <mtustal13@gmail.com>
3 Comment: Created: 12.05.2021 19:26
4 Comment: Expires: 14.05.2023 12:00
5 Comment: Type: 4.096-bit RSA (secret key available)
6 Comment: Usage: Signing, Encryption, Certifying User-IDs
7 Comment: Fingerprint: FB6D22340670C530A5D3624553E80C8E57A42FBC
8
9
10 mQINBGCCAbOBEAC/fpHxRA3p8pVr5KBSHd/PjelIK1Hd7Tc0nigwTXXit1y3ucQ
11 fUds+dxPh5AzF2jOED3EpeARsweDSL0S4m2ZaYaAD6lwW03e/Sturz7dinXYAY6Z
12 s8TCGmY5bYFMZlGfUyLz2Pe8Y/qv21kP/5WbR4G0DQc7yDTgDebzdX4dsTyozzCl
13 VnJhbxjwjbD52mJKYOXOdIn/NPlgmVVTYZX7EWNpEiy75F0qbuFbDI+A01S4qxYN
14 4Z1+ts7dyEGi5ikLPAEBD3Yl2AYDiSmLfbDx1/kI9D5xs73n3fBmnkBH42xza2CD
15 SIiS5izWY0X2Nzzp3NYydkRSiJuJFucNKnAMRl2/VI5UFjLSLlC4OgNkBLYSiVwS
16 N3O0IheDWqCgQmdM6RA3u8Ek8FIR1xlzaMfcH0383rqEMlZgwVkyP5J9VVivYWnu
17 QLvg5EiWjlXNkZc9ENY5mBiwFw7RAUzxi8ISBwVOUTKkPlCofWomRXqwXi4tpidx
18 WsM9MmPx3ndtS+9QRTY7ZRlHwXg3d+1DZsQlqSuwa6lj4TYYNTDeIT+lEyhWVzsv
19 g6nTFJx+oHXNADG0WFSGUDYzKjQJ09QdfYy8KTMM7+fQuXIhF3STX5L19DzVoTkB
20 jVhsloXEydNnuFRWomMmL80VqhF4XbzgJJE/DOLqH0wFQBmEoldFHhfzhwARAQAB
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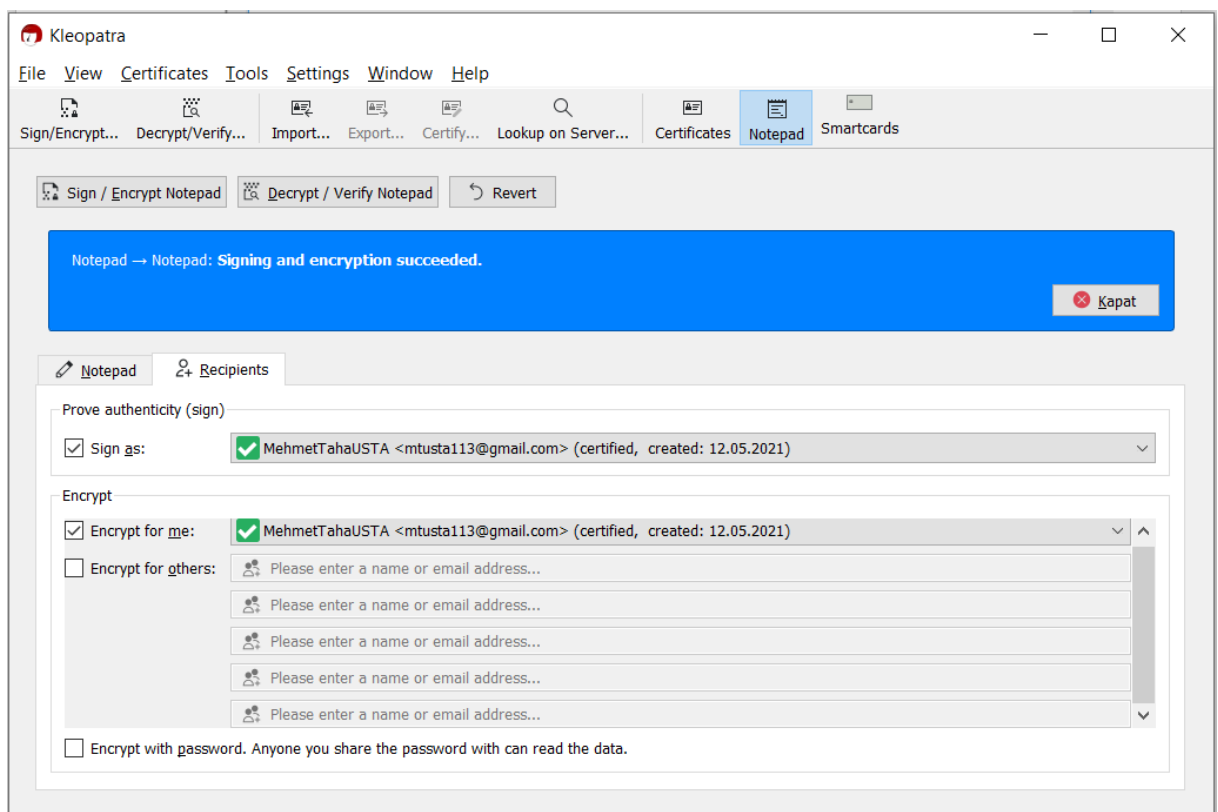
2.5) Exported Private Key

```
1 -----BEGIN PGP PRIVATE KEY BLOCK-----
2
3 lQcYBGCCAbOBEAC/fpHxRA3p8pVr5KBSHd/PjelIK1Hd7Tc0nigwTXXit1y3ucQ
4 fUds+dxPh5AzF2jOED3EpeARsweDSL0S4m2ZaYaAD6lwW03e/Sturz7dinXYAY6Z
5 s8TCGmY5bYFMZlGfUyLz2Pe8Y/qv21kP/5WbR4G0DQc7yDTgDebzdX4dsTyozzCl
6 VnJhbxjwjbD52mJKYOXOdIn/NPlgmVVTYZX7EWNpEiy75F0qbuFbDI+A01S4qxYN
7 4Z1+ts7dyEGi5ikLPAEBD3Yl2AYDiSmLfbDx1/kI9D5xs73n3fBmnkBH42xza2CD
8 SIiS5izWY0X2Nzzp3NYydkRSiJuJFucNKnAMRl2/VI5UFjLSLlC4OgNkBLYSiVwS
9 N3O0IheDWqCgQmdM6RA3u8Ek8FIR1xlzaMfcH0383rqEMlZgwVkyP5J9VVivYWnu
10 QLvg5EiWjlXNkZc9ENY5mBiwFw7RAUzxi8ISBwVOUTKkPlCofWomRXqwXi4tpidx
11 WsM9MmPx3ndtS+9QRTY7ZRlHwXg3d+1DZsQlqSuwa6lj4TYYNTDeIT+lEyhWVzsv
12 g6nTFJx+oHXNADG0WFSGUDYzKjQJ09QdfYy8KTMM7+fQuXIhF3STX5L19DzVoTkB
13 jVhsloXEydNnuFRWomMmL80VqhF4XbzgJJE/DOLqH0wFQBmEoldFHhfzhwARAQAB
14 AA/9G0lTTXA3lVb6QLIGwEuQPTiI/b4if7+OBsLkkiFvXULNzdECVuCrHVWvNW/p
15 NcaHrc2mp49FUvBSSTxDqN235UzanAPf4Gs6OOSVXEO/bv0MVre+FJu/ltMCzvsS
16 GgtZUjlb+Sg5ANC0R3u3gKaYMFsroDbdCYE5O5Xvi1B6Jiv9S0aetWiQit60TI68
17 I2YjPFR7VARaJ5Hq6umZvIRixTBQnIe49RsQxXugRAORrTcv0tKaJWc5NHVn1LV0
18 2Nv4DEBEGl0UKI78KGPSlixWWte+Bi8beMM2c8Q1vcGeAkBfU0EBMyPSRjBiVRv3
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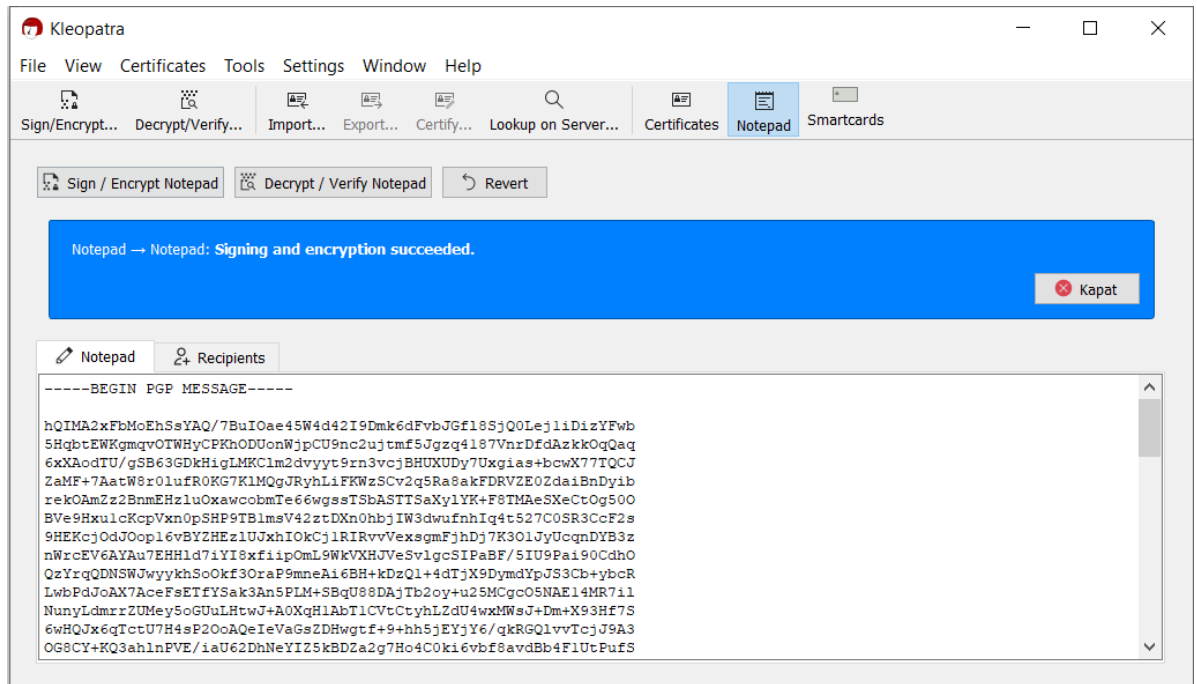
2.6) Message to be encrypted



2.7) The message is encrypted with the selected Public Key



2.8) Encrypted Message



2.9) The decrypted message is obtained by pressing the “Decrypt/Verify Notepad” button. The text obtained is the same as the original message.

