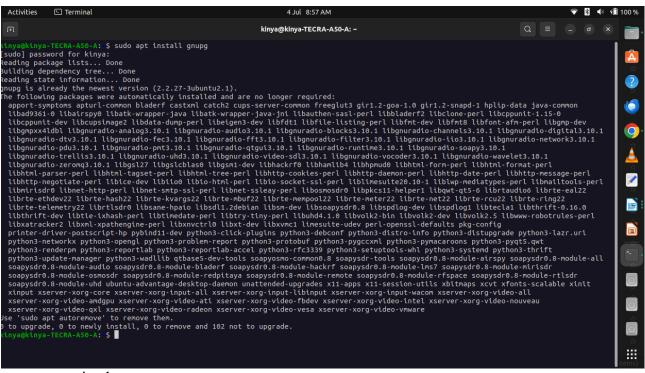
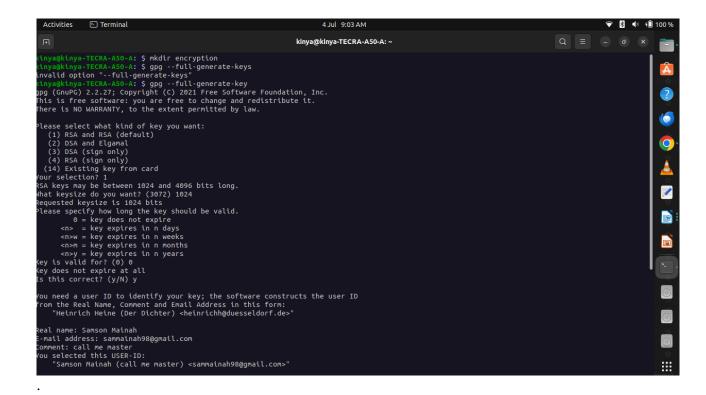
COMPUTER SECURITY LAB MANUAL CRYPTOGRAHPY 101

prepared by Samson Mainah sammainah98@gmail.com

Installing PGP in linux



creating keys



export both public and secret key in the folder you are working on

```
kinya@kinya-TECRA-A50-A:-$ gpg --export -a "Samson Mainah" > encryption/public_key.asc
kinya@kinya-TECRA-A50-A:-$ gpg --export-secret-keys -a "Samson Mainah" > encryption/private_key.asc

Encrypting and decrypting a file

kinya@kinya-TECRA-A50-A:-$ gpg --output encryption/example.txt.gpg --encrypt --recipient "Samson Mainah" encryption/example.txt
gpg: checking the trustdb
gpg: marginals needed: 3 completes needed: 1 trust model: pgp
gpg: depth: 0 valid: 3 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 3u
gpg: next trustdb check due at 2026-07-04
kinya@kinya-TECRA-A50-A:-$ gpg --output encryption/decrypted_example.txt --decrypt encryption/example.txt.gpg
gpg: encrypted with 1024-bit RSA key, ID D0244B98BA6134F5, created 2024-07-04
    "Samson Mainah (call me master) <sammainah98@gmail.com>"
kinya@kinya-TECRA-A50-A:-$
```

output of encrypted file



decrypted file

