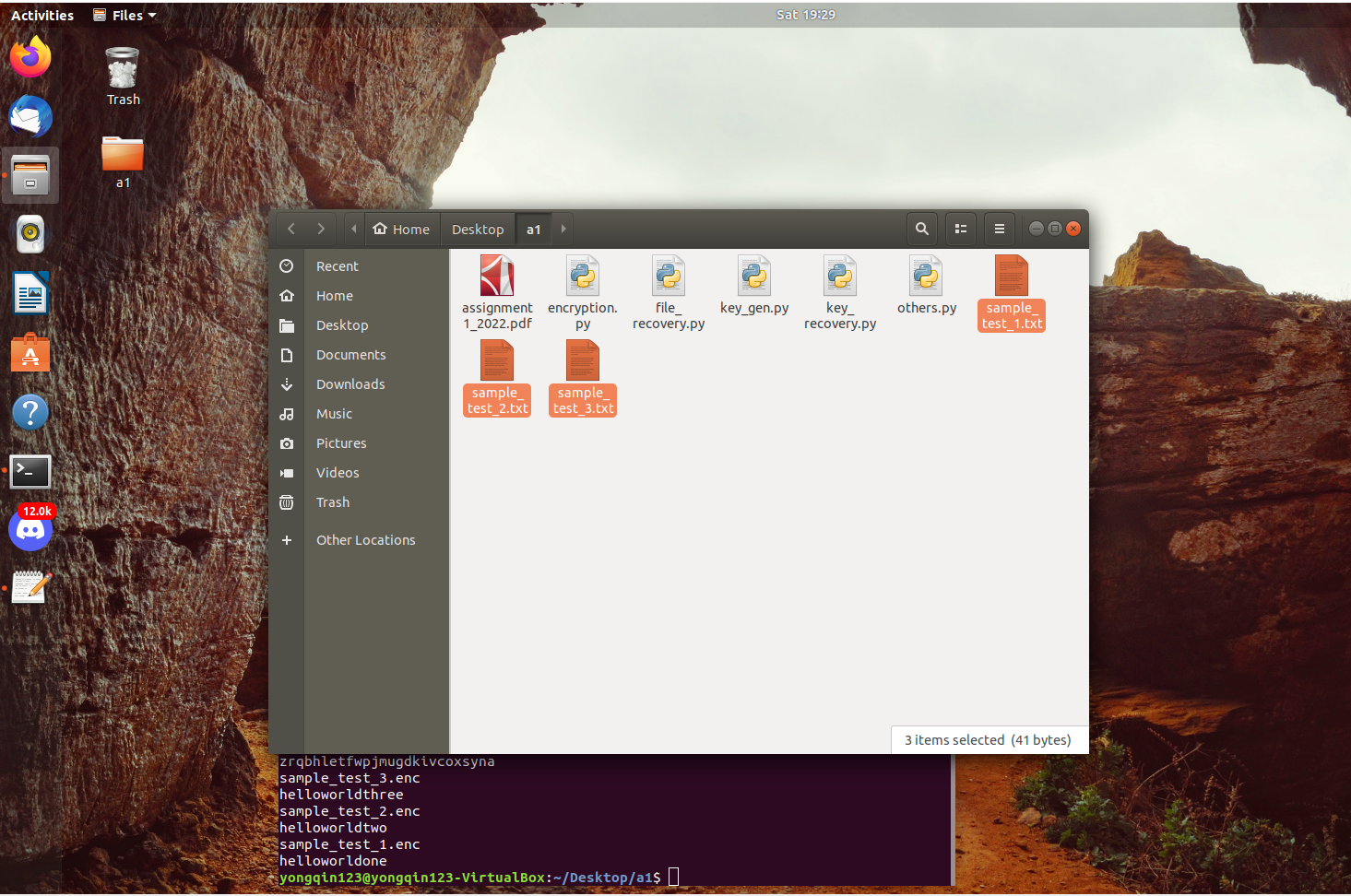
In this report, I will demonstrate how the program is being run and what are the expected outcomes for each demonstration.

Firstly, I will install the pycryptodome library as well as prepare a few text files that will be used to encrypt using substitution cipher on the contents such as sample\_test\_1.txt, sample\_test\_2.txt, sample\_test\_3.txt as shown below.



Their contents are as such:

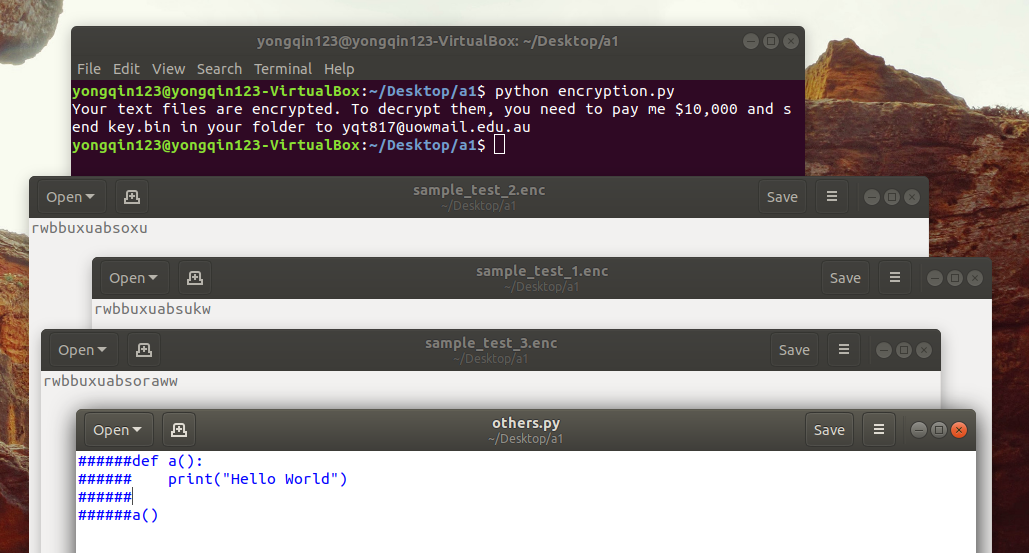
A picture containing graphical user interface

Description automatically generated

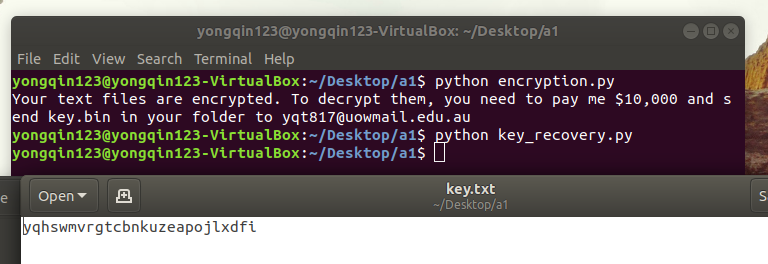
Secondly, I will run the encryption python program (encryption.py) which will generate three .enc files as well as adding commenting to the other python files in the same directory. There will be 3 files generated such as ransompkey.pem, receiver.pem, key.bin.

Graphical user interface, text, application

Description automatically generated



Thirdly, using key.bin and privatekey.pem, I will be able to decrypt the encrypted key stored in the key.bin as shown below, using the key\_recovery.py file.



Lastly, I will be able to decrypt the substituted cipher text inside the .enc files by running the file\_recovery.py file using the key stored in key.txt.

Graphical user interface, text

Description automatically generated