ID: 20180358

Name: Mohammad Ibrahim Abu-Amara

23112021202853

Information Systems Security Assignment #2

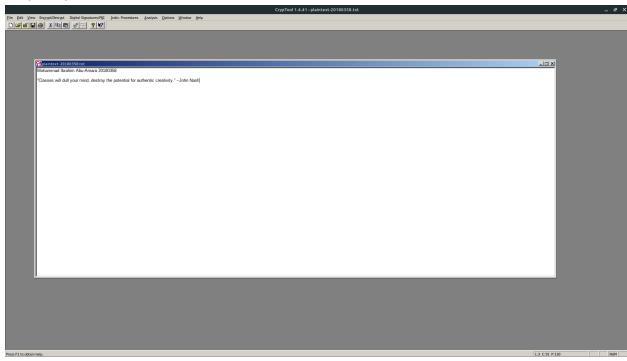
Question



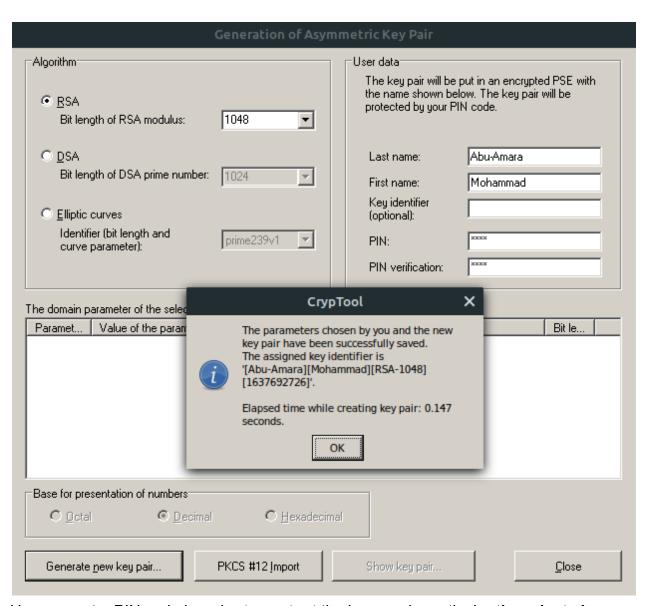
1. Run Cryptool



2. Prepare plaintext file

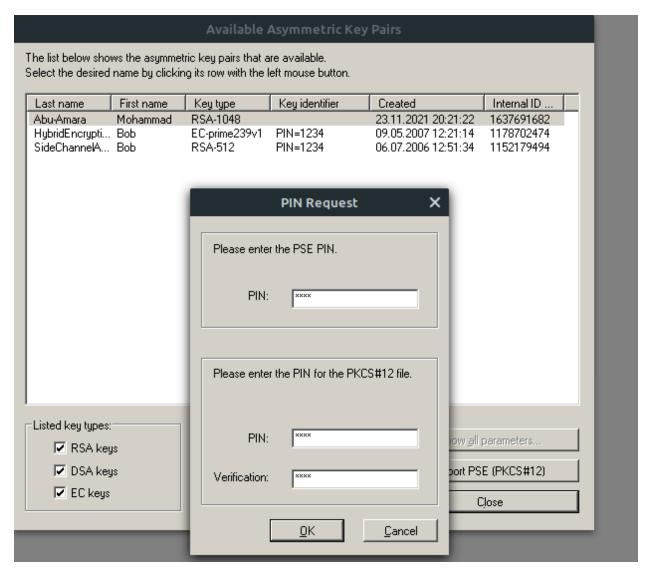


3. Generate RSA key pair



Here we put a PIN code in order to protect the keys, or in particular the private key.

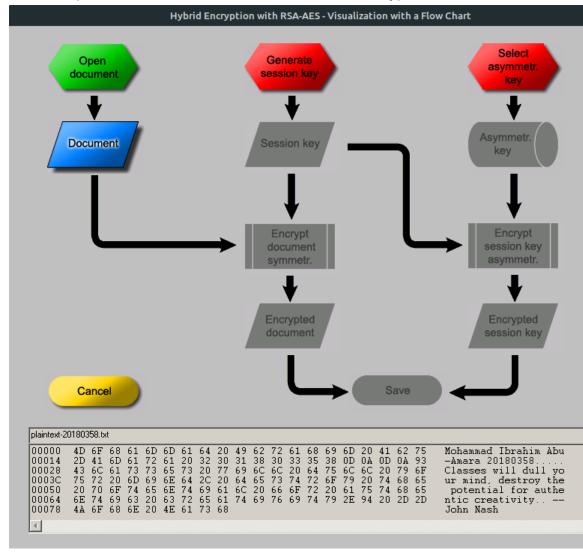
4. Export the key pair



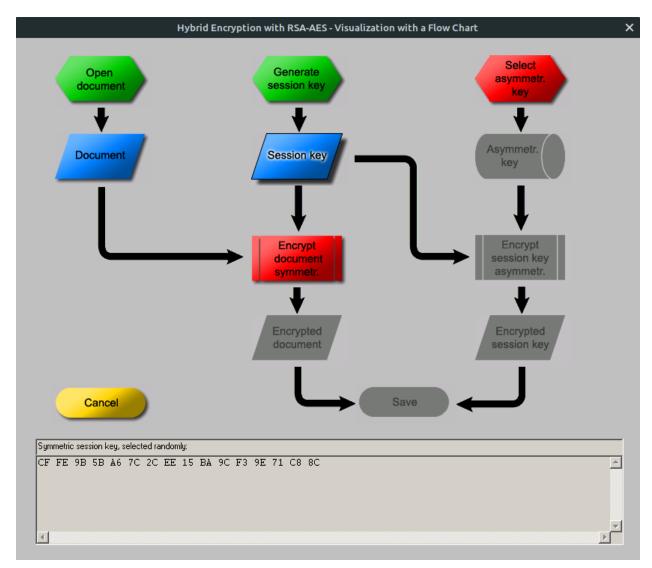
The first PIN is to access the key that we generated in the previous step, and the second PIN is for protecting the object file that the keys, the public key and the private key, will be stored in.

5.

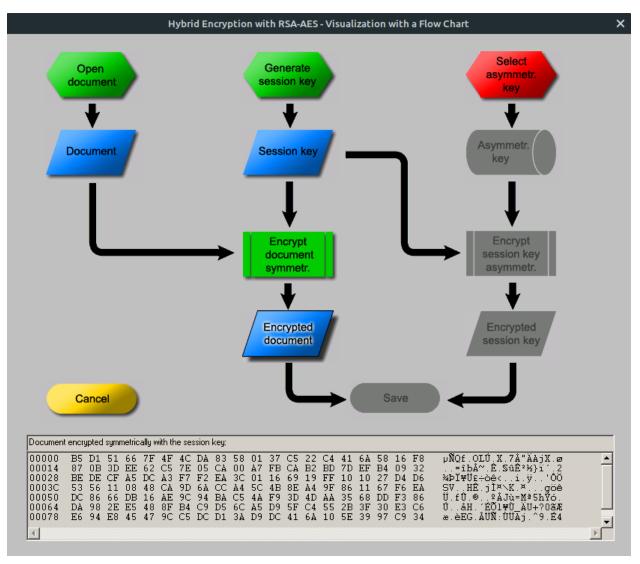
I. First we open the document for which we want to encrypt



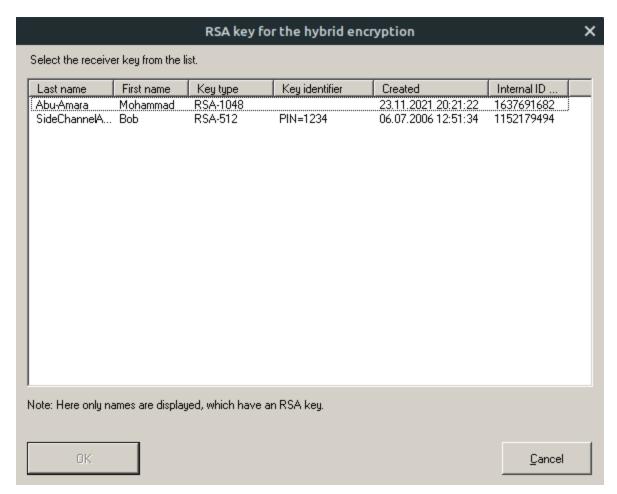
II. We generate the session key in order to secure the communication between two parties



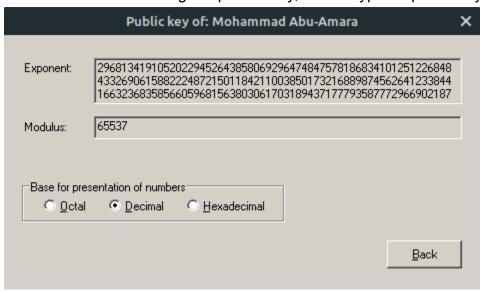
III. Then we encrypt the selected document using the generated session key (symmetric key)



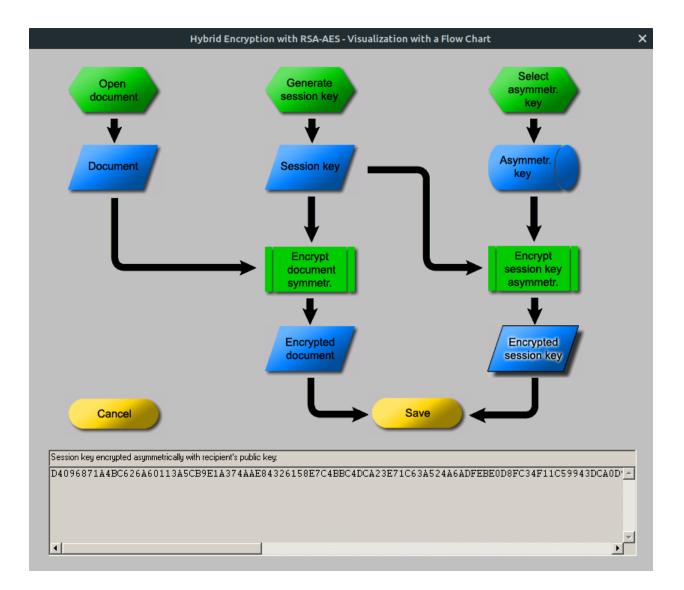
IV. Then we choose our generated private key (asymmetric key)



V. Using the private key, we encrypt the public key



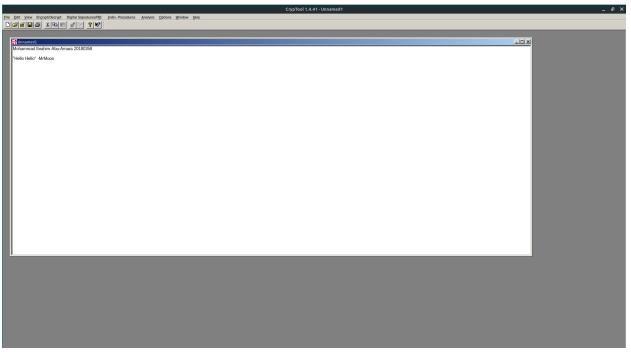
VI. Encrypt the document using the keys ...

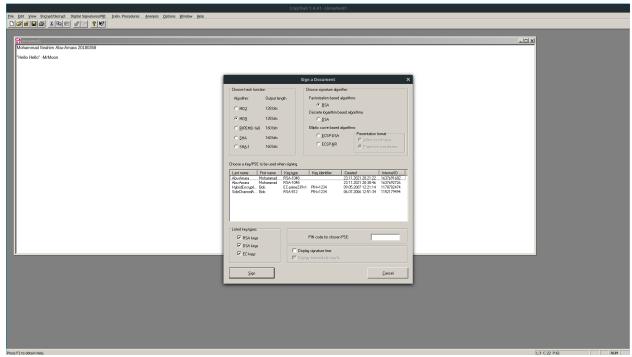


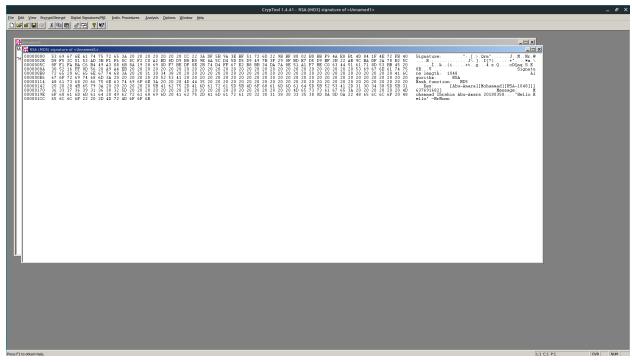


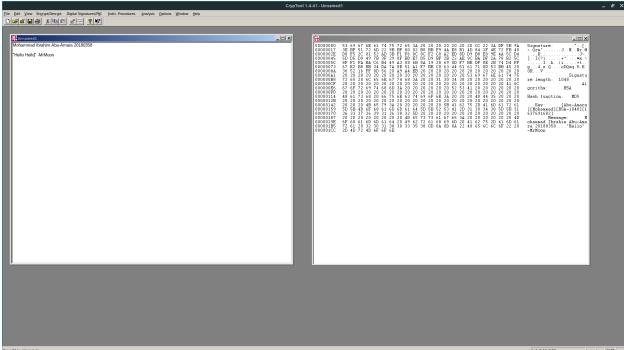
(b)

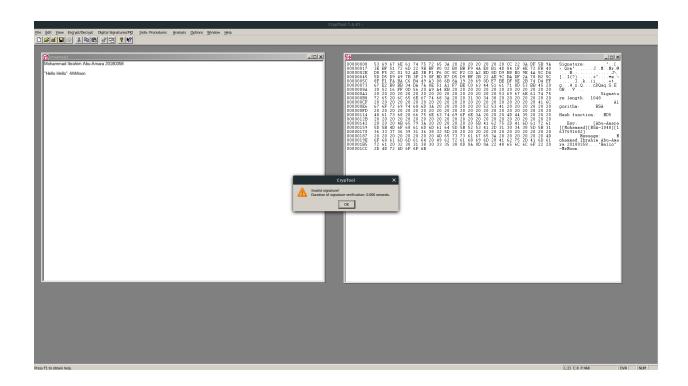
1)











2)