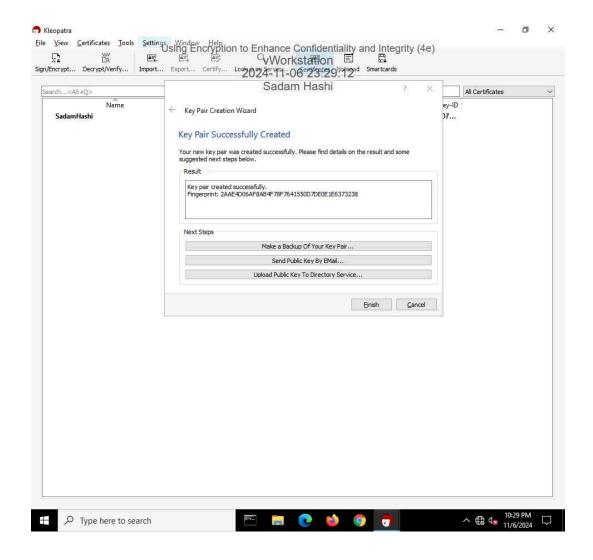
Fundamentals of Information Systems Security, Fourth Edition - Lab 05

Student:	Email:
Sadam Hashi	smhashi@asu.edu
Time on Task:	Progress:
10 hours, 52 minutes	100%
Poport Congrated: Friday, November 8, 2024 at 5:35 AM	

### **Section 1: Hands-On Demonstration**

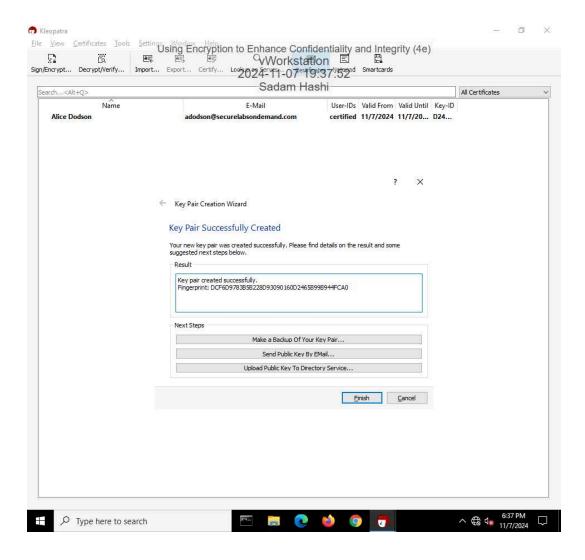
## Part 1: Create and Exchange Asymmetric Encryption Keys

9. Make a screen capture showing the fingerprint for your key pair.



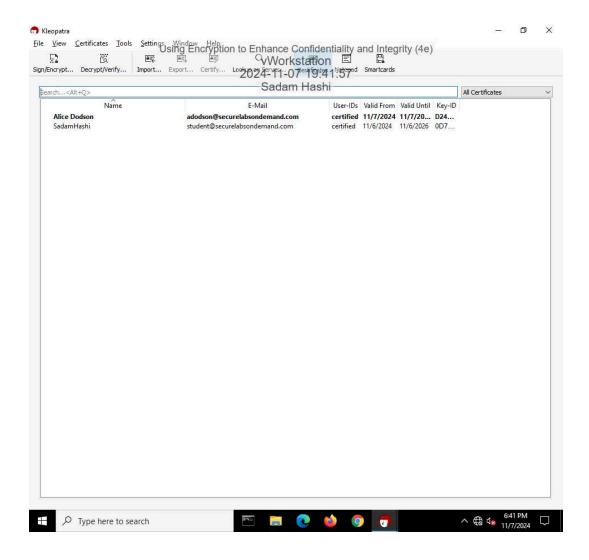
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#### 22. Make a screen capture showing the fingerprint for Alice's key pair.

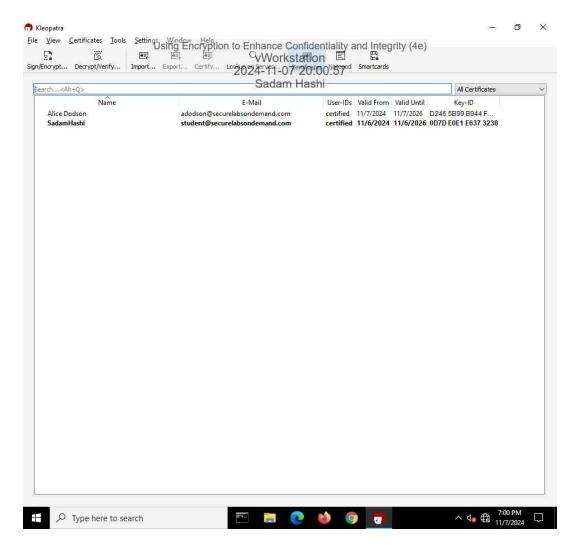


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30. Make a screen capture showing your public key in Alice's certificate cache.

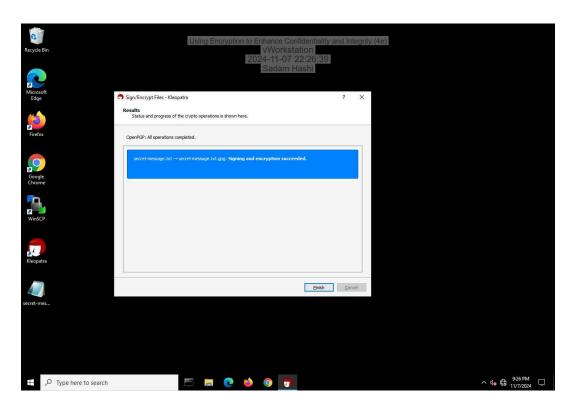


35. Make a screen capture showing Alice's public key in your certificate cache.



Part 2: Encrypt a File Using Asymmetric Encryption

9. Make a screen capture showing the successful signing and encryption message.

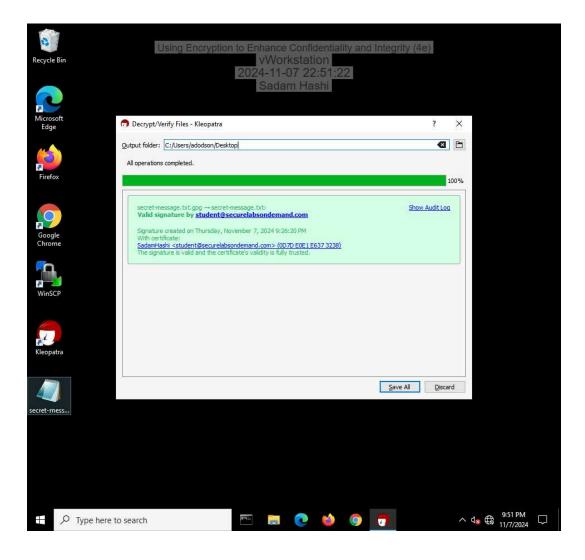


12. Make a screen capture showing the ciphertext.



## Part 3: Decrypt a File Using Asymmetric Encryption

15. Make a screen capture showing the Decrypt/Verify Files window.



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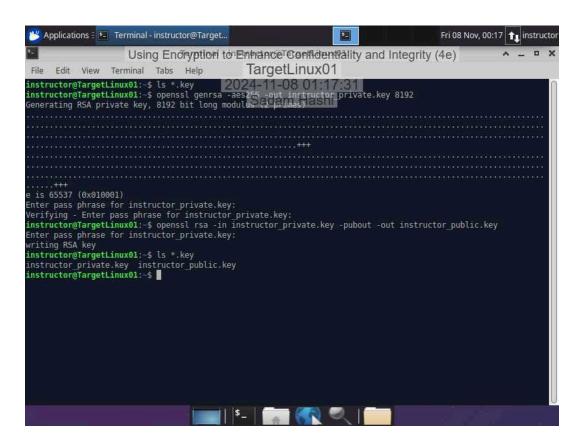
18. Make a screen capture showing the decrypted secret-message.txt file in Notepad.



# **Section 2: Applied Learning**

### Part 1: Create an Asymmetric Key Pair

10. Make a screen capture showing the instructor's key pair files.

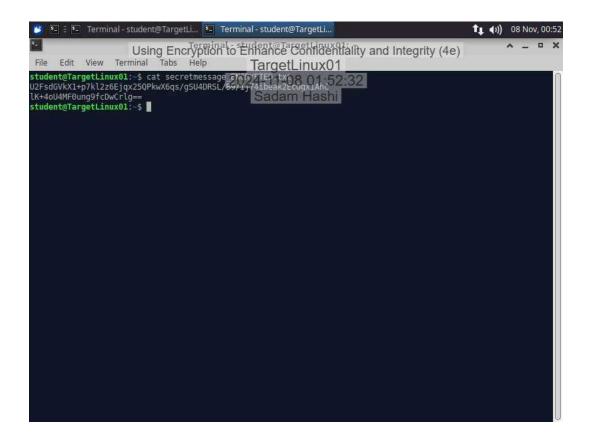


# Part 2: Encrypt a File Using Symmetric Encryption

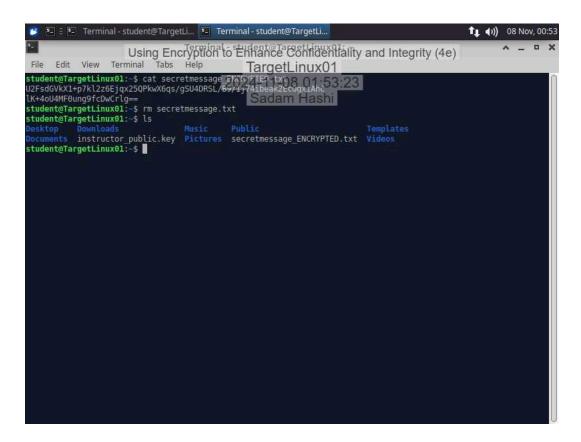
11. **Document** the password you used to symmetrically encrypt the file.

sadam

13. Make a screen capture showing the ciphertext in the secretmessage\_ENCRYPTED.txt file.



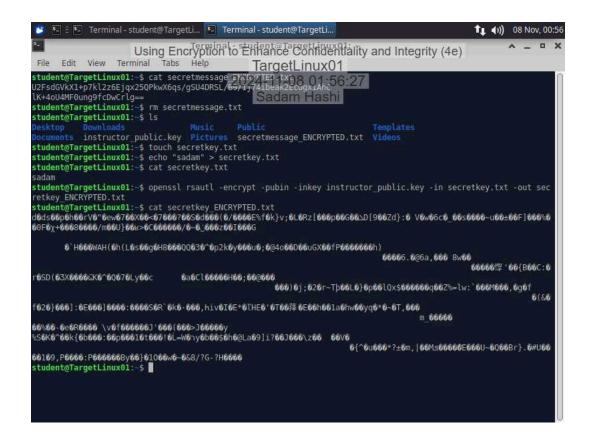
16. Make a screen capture showing the output of the Is command.



Part 3: Transfer and Decrypt a File Using Hybrid Cryptography

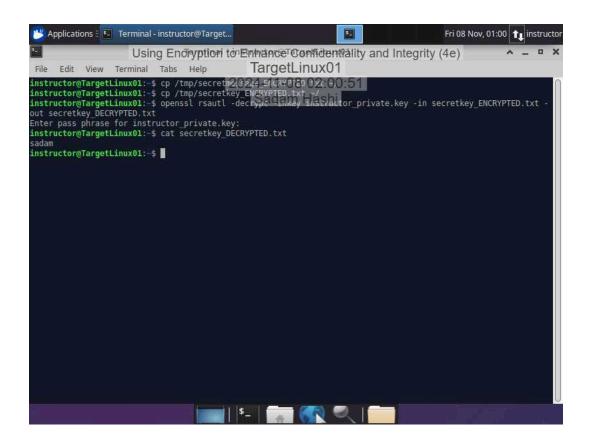
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6. Make a screen capture showing the encrypted contents of the secretkey\_ENCRYPTED.txt file.

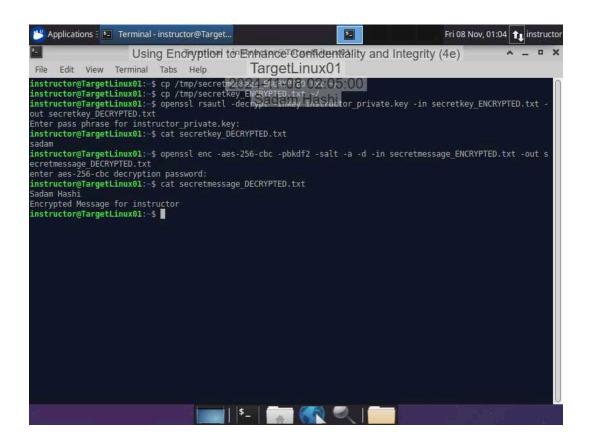


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17. Make a screen capture showing the decrypted contents of the secretkey\_DECRYPTED.txt file.



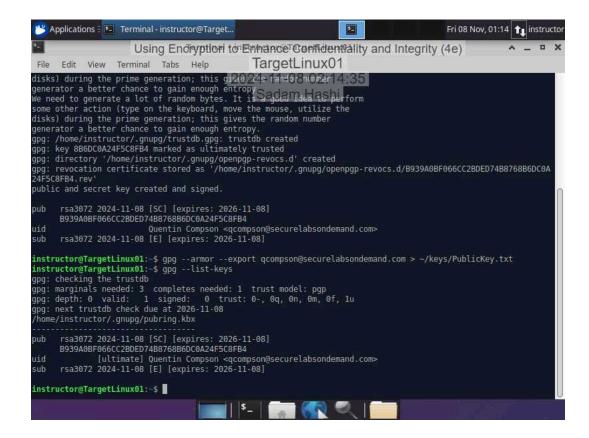
21. Make a screen capture showing the contents of the secretmessage\_DECRYPTED file.



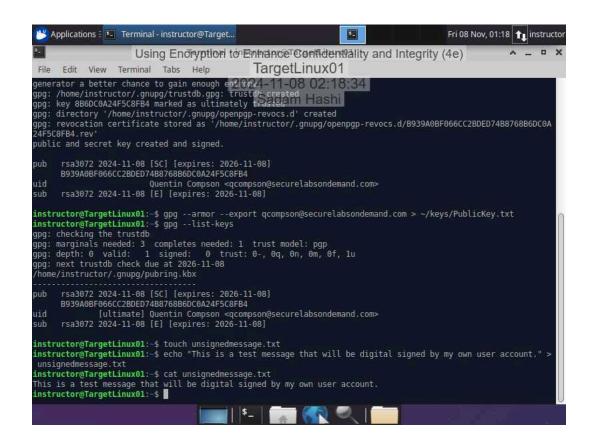
# **Section 3: Challenge and Analysis**

### Part 1: Digitally Sign a Document Using GPG

Make a screen capture showing the key fingerprint for the key pair you generated in this part of the lab.



Make a screen capture showing the contents of the unsignedmessage.txt file.



Part 2: Verify the Digital Signature Using Kleopatra

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Make a screen capture showing the successful signature verification on the signed message file.

