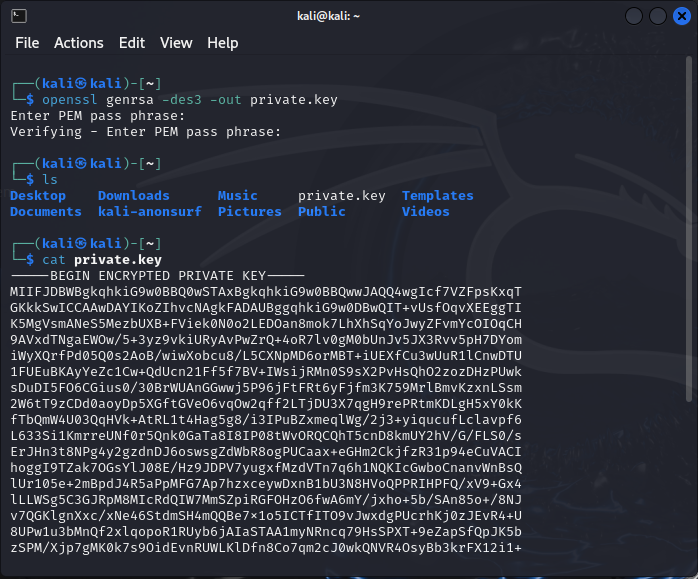
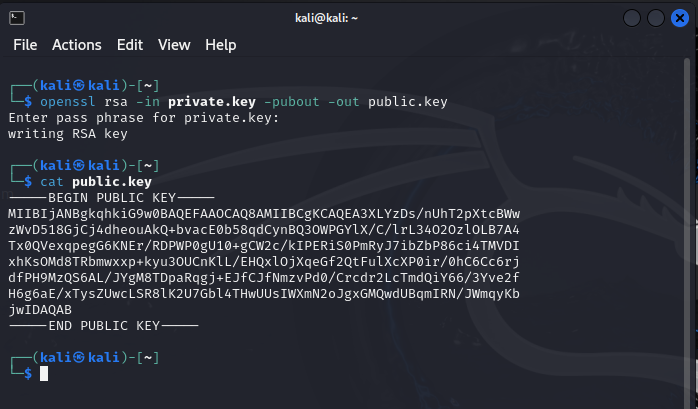
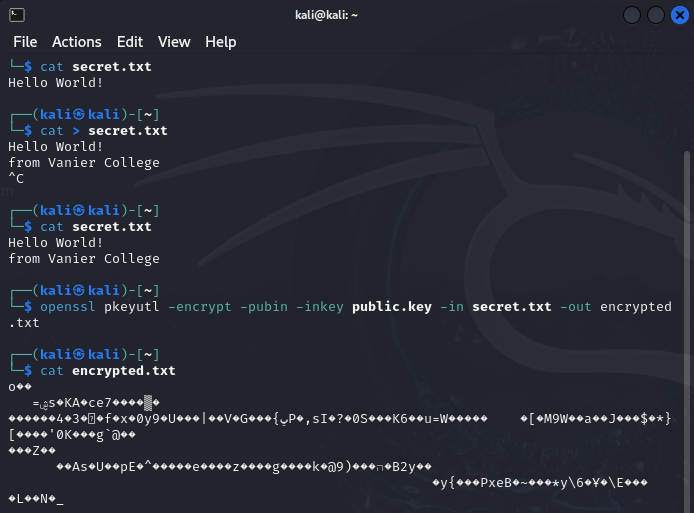
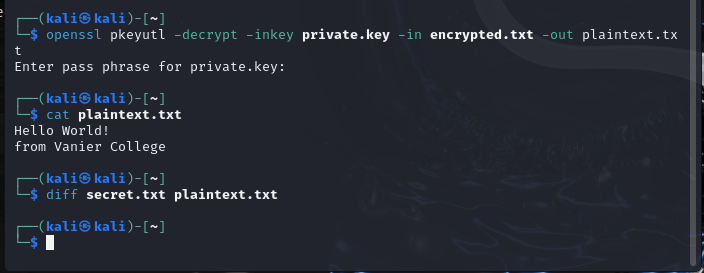
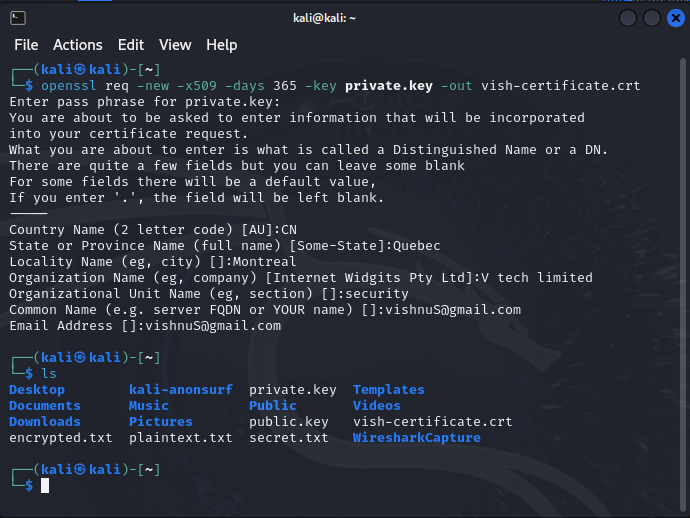
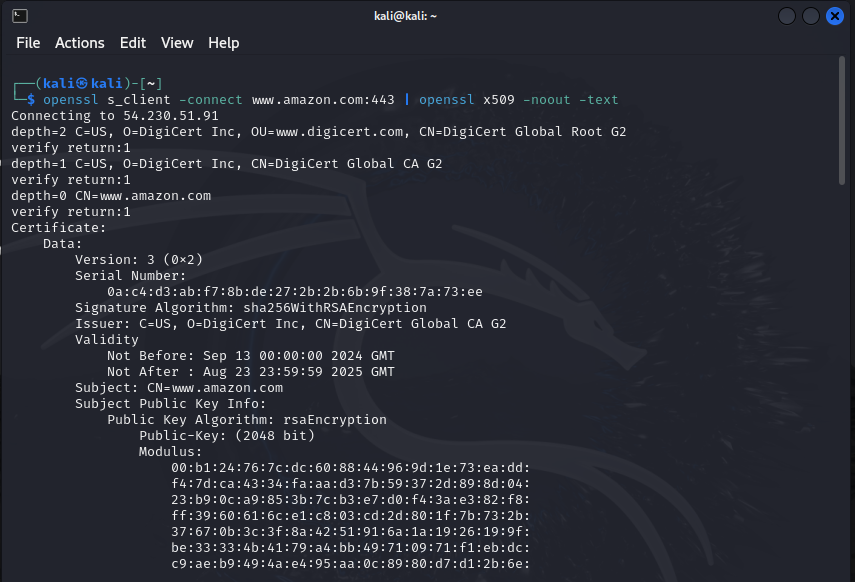
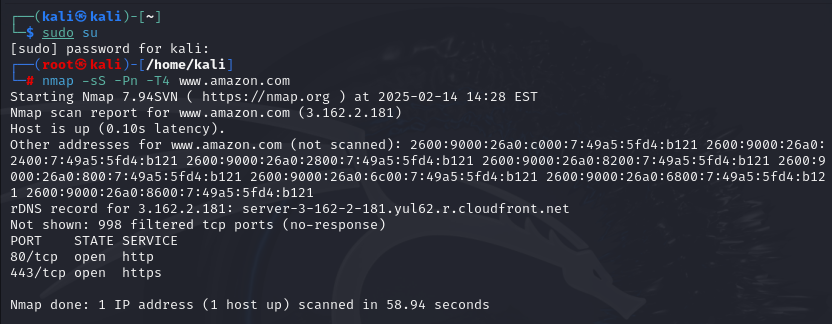
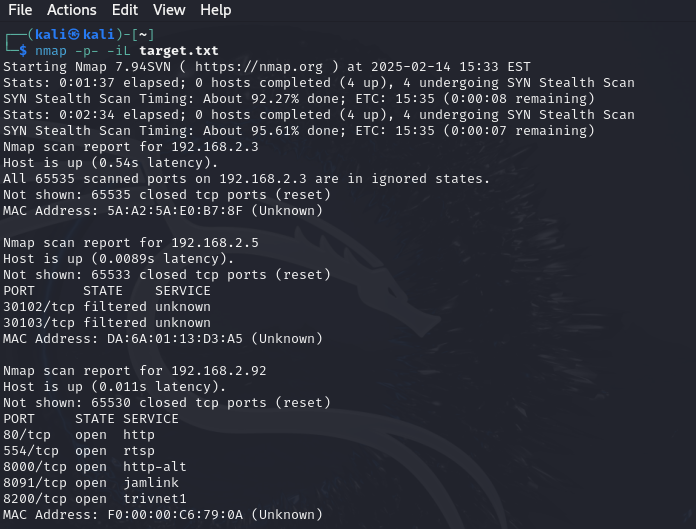
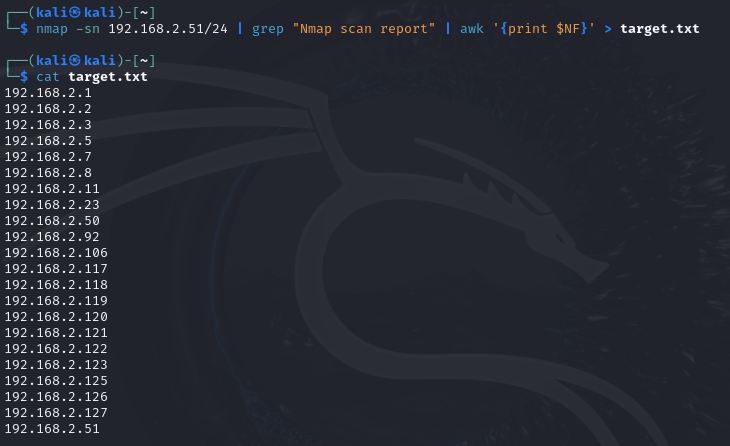
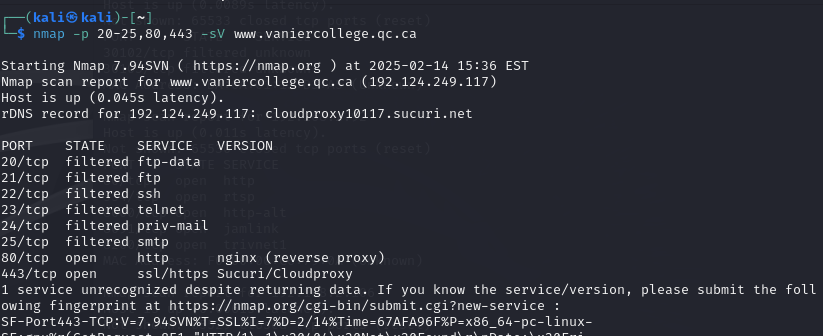
1. **Cipher methods:**
   1. **Substitution Cipher Using Vigenere Square:** File attached with zip file
   2. **Transposition Cipher(Solution):** CIYSUTREAES TRTM
2. **Asymmetric Cryptography: Using RSA encryption and decryption:**
   1. Assume we convert B to a number 2, so we encrypt by powering and then finding the modulus: 2 ^ 13 mod 77 = 30, so cipher text is 30
   2. To decrypt the message, we do a similar process, we take the encrypted message, and power it to private key, and then find the modulus. So here it would be 30 ^ 37 mod 77 = 2.
   3. Create private key using Openssl****
   4. Create public key using Open SSL****
   5. Encrypt text file using public key****
   6. Decrypt encrypted message using private key****
   7. Generate digital certificate using OpenSSL****
   8. Probe website to get information about SSL and TLS protocol connections being used****
3. Nmap tool
   1. Scan amazon.com****
   2. Find and save IPs of connected devices on LAN, and do scans on them****
   3. Scan vaniercollege.qc.ca with specific ports****