

Tanya Gyanmote

tgyanmot@ucsc.edu

1887664

Assignment 5 - Public Key Cryptography

I tested my code in many ways to make sure that it was encrypting and decrypting. First I tested my code by encrypting a in.txt file which contained a message of “Hi this is a test Today has not been a good day” to my out.txt file and checking my out.txt file and got “114df9b5a92473186c3dd5aa91dc2fdd76cf64641a52f456d28be244160ff5f78e66e6dcea43c1b385c0642ac423e41261437156cf00188a8396dcd7ce875fd8763f74b476dedd102d1797138cd151844f3b3f18415631e7b0150c45b8a851385fcf7a0ae52504fba80267b5de87dbfc864f2a9560cf8ba054c4d32c934d59cee”. To make sure that it was correct I decrypted my out.txt file and got back the same message “Hi this is a test Today has not been a good day.” To further my testing I kept playing around with different messages like the one I did above. Another test I ran was that I ran ./keygen then ./encrypt typed Hello World!, encrypted the message. Then call ./decrypt with the encrypted message and it returned Hello World!. Lastly I used diff message.txt with decrypted.txt to show me the difference and returned no errors.