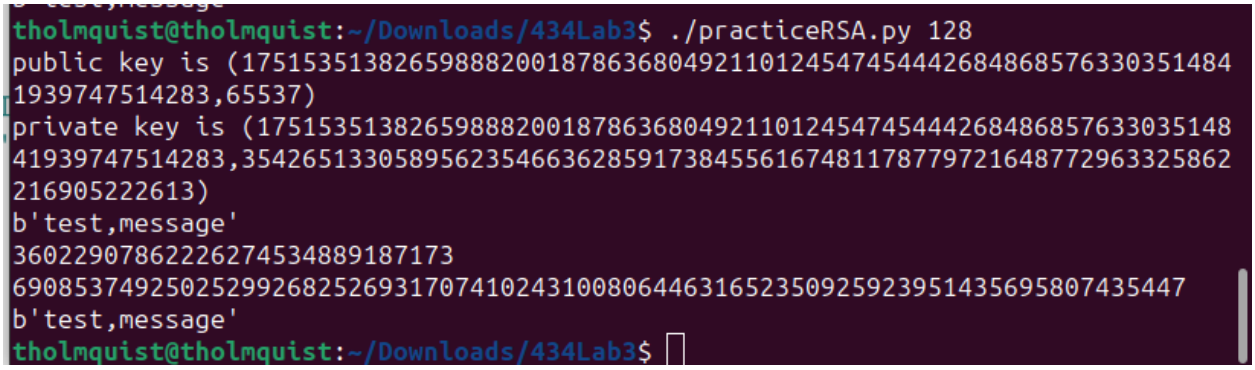
Part 1.



Part 2.

In order to decrypt the given message I first took the public key provided and fed it into this website https://www.dcode.fr/prime-factors-decomposition. I used the website to find the two prime numbers that were multiplied together to get the public key and then once I had those I fed them into my make_key() function from part one as p1 and p2. Then I set e to be 65537, ,which was the number provided in the tuple for the public key and used those three numbers to create my own private key to match the public key to decrypt the message using the make_key() function from part 1. Then once I had the keys generated I ran the same decipher function from part one on the message and printed it to the screen using .to_bytes(15). Then all I had to do was run the program lab3-part2.py and it printed out the key information and the message “b'congrats,passed'”.