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RSA-algorithm

RSA implementation using python

How to Run?

- 1. make sure you have the following libraries:
 - math
 - socket
 - Crypto
 - o OS
- 2. open two terminals
- 3. run server.py using the following command: python server.py ,in the first terminal
- 4. run client.py using the following command: python client.py ,in the second terminal
- 5. start chatting on the client side "both client and server can send and receive but the client starts the sending"

To Run the attack code (attack.ipynb)

- 1. make sure you have the previous libraries in addtion to the following ones:
 - time
 - matplotlib.pyplot
- 2. run each cell in order
- 3. the final output is a graph represents the relationship between the number of bits of the key and time taken to attack the algorithm

Files

- 1. main.py: contains all the functions implementaions and all the imports
- 2. server.py: contains the server code that establish the connection
- 3. client.py: contains the client code that connects with the server
- 4. attack.ipynb: contains the Brute-Force Attack and Fermat factoring algorithm Attack code.