Laboratory_03: Basic Network Communication and Hashing in Python

In this lab you will write a very simple client and server using hashlib.

Your task

Your job is to write a client and a server that connects to the server, retrieves hashes. It, and then displays the fortune to the user. When you connect to this server over TCP it sends a hashed fortune. Here is some important information:

- Use three different algorithms: sha256, sha1 and md5.

- Consider verify the traffic using wireshark or tshark.

References

1. Consider at the socket api for Python. (The link is is for Python 3.6, but you can change the version in the upper left of the page.)

Hints

1. Socket programming is a big topic, so here is some sample code to open a new connection to a given port, read some bytes, and print them:

2. import socket

3. sock = socket.create_connection(())

4. data = sock.recv(4096)

5. print(data)

6. sock.close()