

## **Wireshark Question**

### **HTTP Protocol**

1. Visit `http://example.com` and inspect the request and response.
  - a) What HTTP version is your browser using?
  - b) What are the headers sent in the request? Which one specifies browser capabilities?
2. Visit `<http://google.com>`
  - a) How can you tell a redirection happened in Wireshark?
  - b) What is the HTTP status code for redirection?
  - c) Which header indicates the new location?
3. Visit `<https://www.wikipedia.org>`
  - a) Why can't you see the HTTP payload?
  - b) What protocol does the encrypted traffic use?
  - c) What ports are involved?

### **Socket Programming**

1. Socket programming is a way of connecting two nodes on a network to communicate with each other. One socket(node) listens on a particular port at an IP, while the other socket reaches out to the other to form a connection. The server forms the listener socket while the client contacts the server.

<https://www.youtube.com/watch?v=LtXEMwSG5-8>

<https://www.youtube.com/watch?v=mStnzIEprH8>

2. Write a program to exchange hello messages between server and client to demonstrate the client/server model.

<https://www.geeksforgeeks.org/python/socket-programming-python/>