Lab 2 - Wireshark I

- This is an individual assignment, and worth 20 points.
- The due date and time is 4:00 Thur, September 14 (Sec 01) / 7:00 Thur, September 14 (Sec 76).
- Naming convention is as follows: homework, hypen, last name, first initial, and extension (e.g., Lab1-Outcome-ImG.docx). If you do not follow the convention, I will deduct 1.
- Use "<mark>gen-googlemaps.pcap</mark>" (NOT gen-googleopen.pcap) for the assignment.

1. What are the IP and MAC addresses of the <u>router (gateway)</u> to which the client forwards a packet?

   - IP address: 192.168.0.1
   - Mac address: 00:13:46:cc:a3:ea

2. What IP addresses are available to support the inquiries to maps.google.com? Which one was picked by the client?

    - Available IP addresses:
    74.125.19.147
    74.125.19.104
    74.125.19.105
    74.125.19.99
    74.125.19.106
    74.125.19.103

    - Selected IP address:
    74.125.19.147

3. In the first TCP packet, what is the MAC address of the destination?
00:13:46:cc:a3:ea

4. What are the <u>absoulte</u> sequence and acknowledgement numbers of the ACK packet observed during the first three-way handshaking (use packet # 7)?

   - Absoulte sequence number: 4228839243
   - Absoulte acknowledgement number: 3100896923

5. What ports are used for the TCP communication (use packet #5)? List the ports that the client (source) and the server (dest) used.

   - The port # (client used): 3012
   - The port # (server used): 80