DNS:

Do the following
i) Add a filter to Wireshark that only shows DNS packets
ii) Start capturing packets.
iii) Then open a terminal and run “dig +trace www.google.com” to perform iterative lookup.
iv) Stop the capture immediately after running dig

Answer the following questions
1) What transport layer protocol does DNS use?
2) Which port is used on client and server side?
3) What are the distinct IP addresses contacted during an iterative lookup?
4) Whose ip addresses are these?
5) How long does iterative lookup take? Compute it from wireshark.
6) Run dig www.google.com; which IP address responds to DNS lookup when +trace is not used?
7) Find out the location of the server using ip location service.