

CS302 Computer Network Lab

Assignment 3

Submission details: Code and Report (soft copy)

References:

- <https://www.copernica.com/en/blog/post/a-record-and-mx-record-how-does-it-work>
- <https://www.utilizewindows.com/network-troubleshooting-using-ping-tracer-t-ipconfig-nslookup-commands/>
- <https://en.wikiversity.org/wiki/Wireshark/DNS>

Questions:

1. Develop a program to print the Mail exchange servers of a particular domain with their preferences.
2. Use nslookup and ipconfig commands for finding various network related information.
3. Capture and Analyse DNS Packets using Wireshark.
 - a. Analyse DNS Query and Response Packets.
 - b. By using the captured packets identify the source and destination ports query and response messages.
 - c. Check whether a DNS request receives multiple responses, if so, determine the reason for this