## Practical task on traffic analysis

- 1. Install Wireshark packet analyzer and see how it works
- 2. Run the program and enable packet capture
- 3. Go to any web site, such as epam.com
- 4. Click on any of the tabs on this site
- 5. Close the web browser window
- 6. From the command prompt, run the command: ping 8.8.8.8
- 7. Stop packet capture
- 8. Determine the size of the smallest and largest packet
- 9. Determine which packet length is the most
- 10. To which public IP address was the most IP traffic transmitted?
- 11. From which public IP address was the most IP traffic received?
- 12. Determine the percentage of TCP, UDP, and ICMP packets
- 13. Filter ICMP packets
- 14. Find in the header of one of them the MAC addresses of the source and destination, the IP addresses of the source and destination.
- 15. Find a pair of Echo Request and Echo Reply packets, find the value of the TTL field in them, and explain why it has a different value.
- 16. Change filter, new filtering condition TCP segments with SYN flag.
- 17. In one of the segments, find the source and destination ports, the size of the window, the sequence number, and the acknowledgment number. Explain the purpose of these fields.