

Prac -6 Capture packets using Wireshark and accomplish the following and save the output in file:

- a. Capture all TCP traffic to/from Facebook, during the time when you log in to your Facebook account
- b. Capture all HTTP traffic to/from Facebook (other website), when you log in to our Facebook account
- c. Write a DISPLAY filter expression to count all TCP packets (captured under item #1) that have the flags SYN, PSH, and RST set. Show the fraction of packets that had each flag set.
- d. Count how many TCP packets you received from / sent to Facebook (other website), and how many of each were also HTTP packets.

a) Tcp

b) http

c) • SYN packets: `tcp.flags.syn == 1`

d) • PSH packets: `tcp.flags.push == 1`

e) • RST packets: `tcp.flags.reset == 1`

f) Count Fraction (%) =  $\frac{\text{Displayed}}{\text{Total TCP packet}} \times 100$

g) HTTP fraction (%) =  $\frac{\text{HTTP packets}}{\text{Total packets (TCP or all)}} \times 100$