**Computer Networks, Fall 2023**

Instructor: Shashi Prabh

**Lab 2: Tools**

In this lab, you will get familiarized with diagnostic tools. *This lab is to be done individually.*

# 1 Commandline tools - 50%

Learn the following commandline tools by reading their `man` pages and running them:
`ifconfig, ifup, ifdown, ping, host, traceroute, mtr, tracepath, dig, nslookup,`
`netstat, tcpdump` Experiment with a few switches. Record your observations in your notebook.
Include `ahduni.edu.in`, `google.com` and `berkely.edu` for experiments.

# 2 Wireshark - 50%

Wireshark is a commonly used packet sniffer. Install and experiment with Wireshark - available
at `https://www.wireshark.org/`. Follow the Getting Started guide written by Kurose and Ross
at `http://www-net.cs.umass.edu/wireshark-labs/Wireshark_Intro_v8.0.pdf` and prepare
the answers to the questions listed at the end of the document.

# Evaluation

☐ Knows at-least 3 commandline tools well. TA: _____

☐ Knows how to run Wireshark and can apply some basic filters. TA: _____