To run the discovering-topology.py traceroute program:

- 1. Open the terminal
- 2. Change to the directory where discovering-topology.py is saved (cd ~/.../)
- 3. Install scapy if not already installed (pip3 install scapy)
- 4. Run sudo python3 -E discovering-topology.py

To run the sub.py traceroute program:

- 1. Open the terminal
- Change to the directory where sub.py is saved (note: ensure sub.py and topology-tracing.py are saved in the same directory)
- 3. Install necessary dependencies (scapy, etc) if not already installed
- 4. Edit the ip_ranges list to contain all target ip addresses you would like to traceroute
- 5. Run sudo python3 sub.py

To run the topology-tracing.py traceroute program:

- 1. Open the terminal
- Change to the directory where sub.py is saved (note: ensure sub.py and topology-tracing.py are saved in the same directory)
- 3. Install necessary dependencies (scapy, etc) if not already installed
- 4. Edit line 85 public_ip_range = generate_ips(start_ip, end_ip, skip=64) and change the skip value as needed (or set skip=1 for public ips)
- 5. Run sudo python3 topology-tracing.py start-ip end-ip