Homework #8
(Solutions on January 21ˢᵗ, 2021)

1.   Please briefly describe the learning process that a switch uses to fill its tables.

2.   What are the differences between a switch and a router?

3.   What is the byte stuffing in PPP protocol?

4.   Please explain the Hidden Terminal Problem.

5.   Consider the IEEE 802.11 MAC Protocol: How does CSMA/CA tackle the problem of collisions (what steps are taken at the sender and receiver respectively)? What is the idea behind the RTS/CTS concept?

6.   One of the advanced capabilities of IEEE802.11 Standard is Rate Adaptation, please describe this briefly.