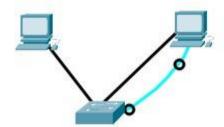
Lab work: MAC addresses and switch MAC address table

- 1. Open the class computer (password = tllabra)
- 2. Open the network settings of your computer and make sure that only the TP-Link network card is used, other network cards can be turned off.
- 3. Assign IP addresses to computers (TP-Link network card) using 192.168.5.0 /24 networks. (Please note that each computer has an unique IP address)

One PC IP address: 192.168.5.1Another PC IP address: 192.168.5.3

4. Build the network shown in the adjacent picture by connecting computers to a switch ports f0/13 and f0/15. Use Switch S1, so from the other computer, also connect the console connection (PC CON) to the console port on the switch (S1-con).



- 5. Use Putty-software and open the console connection to your switch and give it a name S1.
 - In Putty, use serial connection and COM-3 port



6. Test the connection between the computers with ping. If the connections do not work, find out what is wrong (ask your instructor for help if necessary) and try again.

```
C:\Users\tllabra>ping 192.168.5.3

Pinging 192.168.5.3 with 32 bytes of data:
Reply from 192.168.5.3: bytes=32 time=31ms TTL=128
Reply from 192.168.5.3: bytes=32 time=3ms TTL=128
Reply from 192.168.5.3: bytes=32 time=2ms TTL=128
Reply from 192.168.5.3: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.5.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 31ms, Average = 9ms
```

- 7. Find the MAC addresses of the computers and note them down (use ipconfig/all command in your PC)
 - > 50-3E-AA-CF-66-F1
- 8. Check out the MAC address table on the switch. (Switch#show mac-address-table or show mac address-table)
 - What addresses appear on screen after that command What MAC addresses can be found on ports f0/13 and f0/15?
 - > 503e.aacf.66e8 Fa0/15
 - > 503e.aacf.66f1 Fa0/13
 - Does the table content match the network you're building?
 - Yes