# Homework #2
## (Due on 12:00am, Thursday, Nov. 5th, 2009)

1.      CRC checksums: Please calculate the CRC $R$ of $D$ = 0101 1100 1010 0111 1110 1111. Please use the 4 bit generator $G$ = 1001.

2.      Why do we need multiple identifiers for one entity such as IP-addresses, MAC addresses etc.?

3.      How does a switch learn? Do you know the difference between a router, a switch, a hub and a bridge?

4.      Please look into the Ethernet frames using wireshark and, in the best case scenario, observe an ARP request. What happens, if you want to connect to a host that is not in your local area network?