Distributed Computer Systems – Laboratory 2

Network interfaces

1. Compile and run the program delivered by the lecturer and modify the MAC addresses presented on the console to the hexadecimal form, just as the `ipconfig /all` (MS Windows) command does..

2. Create the program that will show the details of the selected network interface (its name, MAC address and IP numbers attached to it). Use the **getByName()**, **getHardwareAddress()** and **getInetAddresses()** methods. The name of the qerried interface should be provided as the program's parameter.

3. Create the program that will list names (**getName()**) of all the non-virtual network interfaces (including the loopback address – in this case add the "loopback" string) with their MTU (use the **getMTU()** method), IP addresses, subnet masks, and broadcast addresses attached to them (use the methods of the **InterfaceAddress** type: **getAddress()**, **getBroadcast()**. **getNetworkPrefixLength()**).

Source: NetworkInterface (Java Platform SE 8) (oracle.com)