Exercise: Networks, Internet and Protocols

Problems for exercises and homework for the "Software Technologies" course @ Software University.

1. Trace the route/connectivity to a certain IP address

- 1.1. Use the "tracert" command to test route to an external website of your choosing /Example: wikipedia.com/
- 1.2. Use the "ping" command to test connectivity to an external website of your choosing
- 2. Add a screenshot of the result here:

```
🛅 vaninavelikova — -zsh — 80×24
Last login: Sun Sep 17 13:48:50 on ttys000
vaninavelikova@Vaninas-Air ~ % traceroute indeed.com
traceroute: Warning: indeed.com has multiple addresses; using 162.159.130.67
traceroute to indeed.com (162.159.130.67), 64 hops max, 52 byte packets
1 home (192.168.1.1) 3.395 ms 2.857 ms 3.054 ms
  1-144-166-62.ftth.glasoperator.nl (62.166.144.1) 11.576 ms 11.855 ms 11.7
40 ms
3 10.10.12.41 (10.10.12.41) 14.506 ms 14.461 ms 13.954 ms
4 80.249.210.118 (80.249.210.118) 53.295 ms 22.708 ms *
   80.249.210.118 (80.249.210.118)
                                    15.642 ms * 15.459 ms
   * 141.101.65.14 (141.101.65.14)
                                   15.840 ms
   172.71.180.4 (172.71.180.4) 25.689 ms
   * 162.159.130.67 (162.159.130.67) 14.780 ms *
vaninavelikova@Vaninas-Air ~ % 📕
```

```
m vaninavelikova — -zsh — 80×24
Last login: Sun Sep 17 20:43:34 on ttys000
vaninavelikova@Vaninas-Air ~ % ping booking.com
PING booking.com (18.65.39.20): 56 data bytes
64 bytes from 18.65.39.20: icmp_seq=0 ttl=250 time=16.587 ms
64 bytes from 18.65.39.20: icmp_seq=1 ttl=250 time=15.414 ms
64 bytes from 18.65.39.20: icmp_seq=2 ttl=250 time=16.844 ms
64 bytes from 18.65.39.20: icmp_seq=3 ttl=250 time=16.780 ms
64 bytes from 18.65.39.20: icmp_seq=4 ttl=250 time=18.066 ms
64 bytes from 18.65.39.20: icmp_seq=5 ttl=250 time=16.413 ms
64 bytes from 18.65.39.20: icmp_seq=6 ttl=250 time=17.860 ms 64 bytes from 18.65.39.20: icmp_seq=7 ttl=250 time=16.998 ms
64 bytes from 18.65.39.20: icmp_seq=8 ttl=250 time=15.419 ms
64 bytes from 18.65.39.20: icmp_seq=9 ttl=250 time=16.819 ms
64 bytes from 18.65.39.20: icmp_seq=10 ttl=250 time=13.593 ms
64 bytes from 18.65.39.20: icmp_seq=11 ttl=250 time=14.207 ms
64 bytes from 18.65.39.20: icmp_seq=12 ttl=250 time=13.782 ms
^C
  booking.com ping statistics --
13 packets transmitted, 13 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 13.593/16.060/18.066/1.409 ms
vaninavelikova@Vaninas-Air ~ %
```

2. Find the IP address behind a domain name

- 1. Using an online DNS lookup tool, like **DNS Checker** or **MX Toolbox** find the IP address of a domain. /Example: medium.com/
- 2. Add a screenshot of the result here:











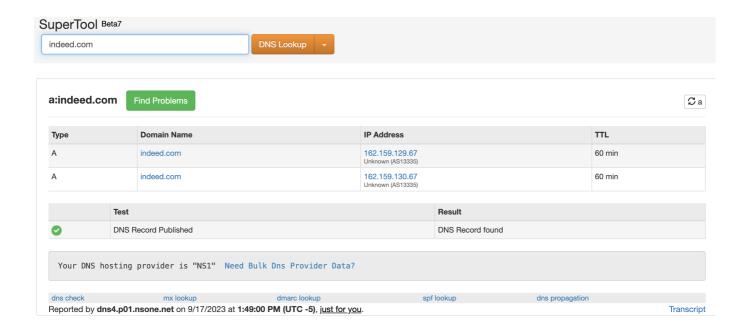












3. Execute HTTP GET

- 1. Using https://restcountries.com/ and DevTools on your browser. Execute a GET request for a country of your choosing. /Example: https://restcountries.com/v3.1/name/deutschland/
- 2. Add a screenshot of the result with DevTools open here:

