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Internet Technologies

ASSIGNMENT

Practical -2. With help of ping, check if you are connected to other systems of your network and find the route to connect to that system using tracert. List all the processes which are using ports for TCP protocol.

```
C:\Users\saara>ping

Usage: ping [-t] [-a] [-n count] [-l size] [-f] [-i TTL] [-v TOS]
            [-r count] [-s count] [[-j host-list] | [-k host-list]]
            [-w timeout] [-R] [-S srcaddr] [-c compartment] [-p]
            [-4] [-6] target_name

Options:
    -t             Ping the specified host until stopped.
                   To see statistics and continue - type Control-Break;
                   To stop - type Control-C.
    -a             Resolve addresses to hostnames.
    -n count       Number of echo requests to send.
    -l size        Send buffer size.
    -f             Set Don't Fragment flag in packet (IPv4-only).
    -i TTL         Time To Live.
    -v TOS         Type Of Service (IPv4-only. This setting has been deprecated
                   and has no effect on the type of service field in the IP
                   Header).
    -r count       Record route for count hops (IPv4-only).
    -s count       Timestamp for count hops (IPv4-only).
    -j host-list   Loose source route along host-list (IPv4-only).
    -k host-list   Strict source route along host-list (IPv4-only).
    -w timeout     Timeout in milliseconds to wait for each reply.
    -R             Use routing header to test reverse route also (IPv6-only).
                   Per RFC 5095 the use of this routing header has been
                   deprecated. Some systems may drop echo requests if
                   this header is used.
    -S srcaddr     Source address to use.
    -c compartment Routing compartment identifier.
    -p             Ping a Hyper-V Network Virtualization provider address.
    -4             Force using IPv4.
    -6             Force using IPv6.


C:\Users\saara>
```

tracert 10.135.2.150:

```
Tracing route to Avinash-singh [10.135.2.150]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  Avinash-singh [10.135.2.150]

Trace complete.
```

```
C:\Users\saara>tracert facebook.com

Tracing route to facebook.com [31.13.79.35]
over a maximum of 30 hops:

  1      *        *      346 ms  10.135.1.1
  2  1071 ms   266 ms   196 ms  172.29.245.1
  3   192 ms   136 ms    48 ms  172.31.210.182
  4   108 ms   239 ms   317 ms  172.31.210.143
  5   110 ms   103 ms   229 ms  172.31.198.30
  6      *        *        *    Request timed out.
  7      *        *        *    Request timed out.
  8      *        *        *    Request timed out.
  9   107 ms   234 ms    94 ms  10.152.7.214
 10   282 ms   194 ms    96 ms  10.152.7.233
 11    90 ms   247 ms   122 ms  ae1.pr01.bom1.tfbnw.net [157.240.68.238]
 12   100 ms   108 ms   267 ms  po101.psw03.bom1.tfbnw.net [157.240.40.229]
 13   225 ms   493 ms    80 ms  157.240.39.139
 14    93 ms   304 ms   281 ms  edge-star-mini-shv-02-bom1.facebook.com [31.13.79.35]

Trace complete.
```