

Tasks

(Only attach a screenshot of the command prompt/terminal for every question.)

- 1) Find the IP address of the computer you are using and the IP address version.

Command: _____
IP Address: _____
IP Address version: _____

- 2) Find the subnet mask of the computer you currently use, MAC address, the gateway, and whether DHCP is turned on.

Command: _____
Subnet Mask, MAC address, gateway, DHCP status: _____

- 3) Display the hostname of the computer and which protocol needs to be installed to access this command.

Command: _____
Hostname: _____
Protocol Name: _____

- 4) Check any one port on TCP and show the results, whether it's found or not.

Command: _____

- 5) Display the number of datagrams sent and received.

Command: _____

- 6) Find the path of routers of two websites (of your own choice). What is its IP address? How many hops are involved in the path?

Command: _____

- 7) A ping to 8.8.4.4 works but a ping to the machine's name "coffee machine" fails. What could be wrong?

Reason: _____

8) If the order of the wires on both ends of the RJ45 connector is different, which type of cable is used? (Name)

Answer:

9) Can you connect a Router Ethernet port to PC NIC using a straight-through cable? (Yes/No)

Answer: _____

10) Can you connect a Switch to Router using a crossover cable? (Yes/No)

Answer: _____

11) Can you connect a Switch to Hub using a straight-through cable? (Yes/No)

Answer:

12) Find all other hosts available on the network.

Command: _____

13) Displays the owning process ID associated with each connection.

Command: _____

14) Check for basic IP connectivity between two computers by name and IP address. How can basic IP connectivity be checked? What are the reasons why there is no connectivity?

Command: _____

