CCICOMP Asynchronous Activity - Internetworking

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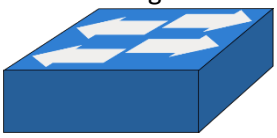
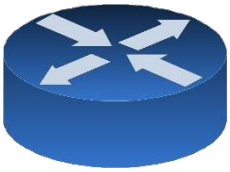
Tasks:

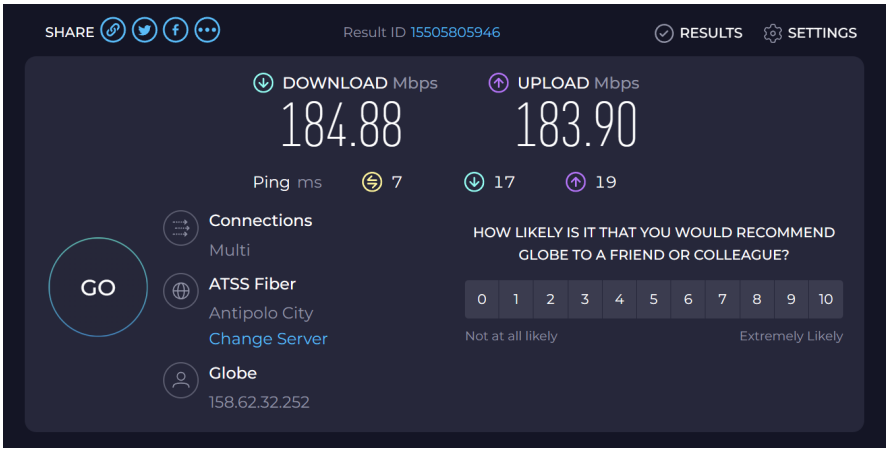
1. Open a browser, perform an online speed test on your current Internet Connection. Take a screenshot and attach to this document. Identify the ff:
    a. Upload and download speed
    b. Your IP address
    c. Internet Service Provider

2. Identify the following network devices and explain their function in 1-2 sentences.
    a. 
    b. 
    c. 
    d. 

3. Examine the network connection of your computer. Identify the ff:
    a. MAC address
    b. IPv6 address
    c. IPv4 address
    d. Subnet Mask
    e. Default Gateway

    How did you get this information from your machine? Describe the step-by-step process.

1.



Download speed: 184.88 Mbps

Upload speed: 183.90 Mbps

IP address: 158.62.32.252

Internet service provider: Globe

2.

a. **Switch**. Switches allow for the formation of connections between devices using **cables** to form a network. They serve as the intermediary between end devices, i.e., servers and clients connected to the network.
b. **Wireless Access Points.** Like switches, WAPs allow for the formation of connections between end devices. However, they do so wirelessly, i.e., WAPs allow *wireless devices* to connect together and form a network.
c. **Router.** Routers connect networks, calculating the best possible *route* to move data around.
d. **Firewall.** Firewalls serve as a *shield* that filters out unwanted data from a network, preventing access.

3.

a. 74:97:79:59:c0:49
b. fe80::2aef:e86a:55b0:eb2f%17
c. 192.168.254.129
d. 255.255.255.0
e. 192.168.254.254

This information can be found by opening **Command Prompt** and entering the command `ipconfig /all`. The `/all` flag is required to see the physical address (MAC), as it displays information in more detail than simply running `ipconfig`. An alternative way is to view **Network & internet > Advanced network settings > Hardware and connection properties** in the Windows 11 Settings application.