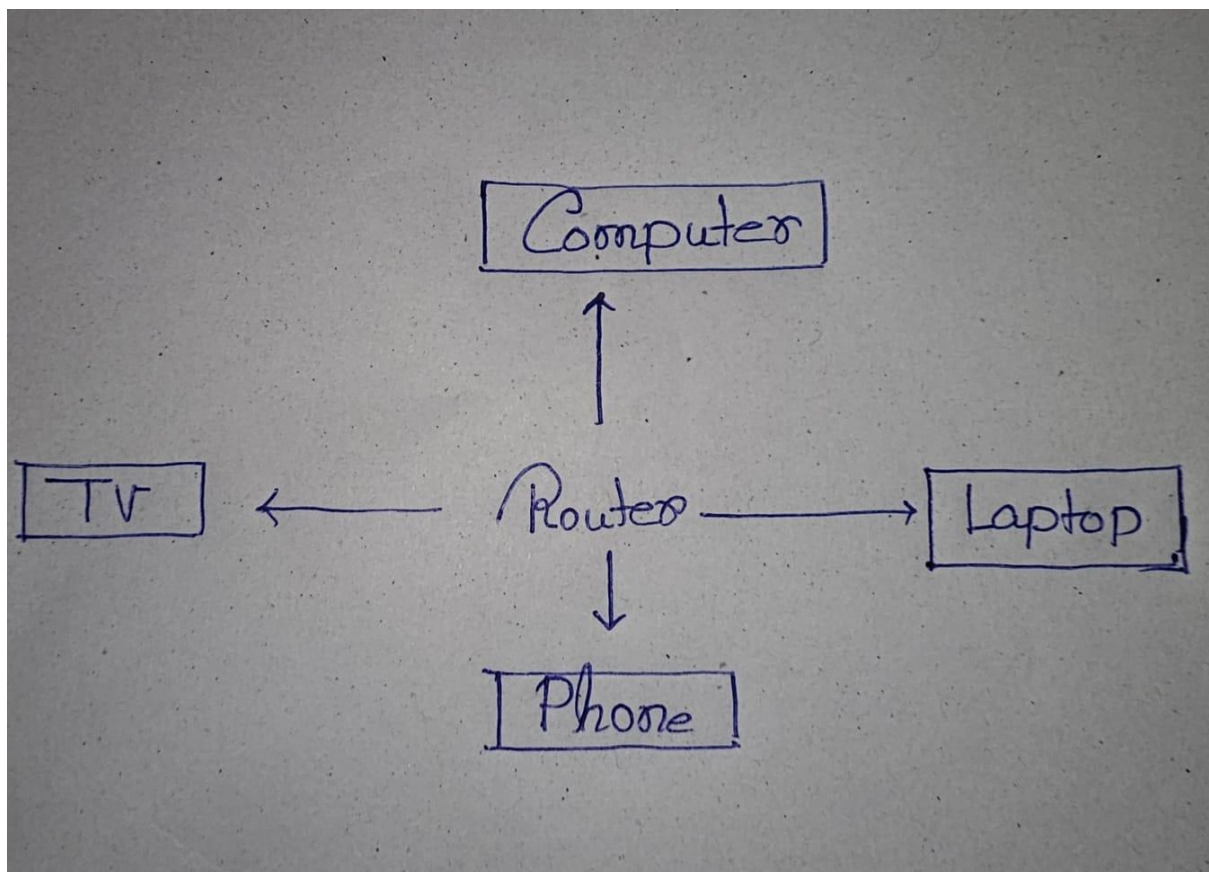


Assignment 1: Draw your Home Network Topology and explain how you are accessing the RPS Lab environment.

Answer: The star topology is very popular with home networks. In a star network, all devices connect to a central hub, typically a router.

Star networks using Router look like—what else—a star, with a center and several spokes reaching out from the center to the different PCs on the network. As shown in below diagram, the network hub is the center of the star, with the different PCs connected through the hub.



Accessing the RPS Lab Environment:

To access the RPS lab environment from this home network, we should typically follow these steps:

Connect to the Internet: I ensure that my home network is connected to the internet, either through a wired or wireless connection.

Remote Desktop Connection: Once connected to the internet we would likely use a remote desktop client or similar software to connect to a computer or server within the RPS lab environment. This would allow us to interact with the lab's systems as if you were physically present, enabling tasks such as running experiments, accessing data, or controlling equipment remotely.

Authentication and Authorization: Depending on the lab's security protocols, we may need to authenticate ourselves using credentials (e.g., username/password) and be authorized to access specific resources within the lab environment.

By following these steps, we can access and utilize the resources available in the RPS lab environment from the comfort of my home network.