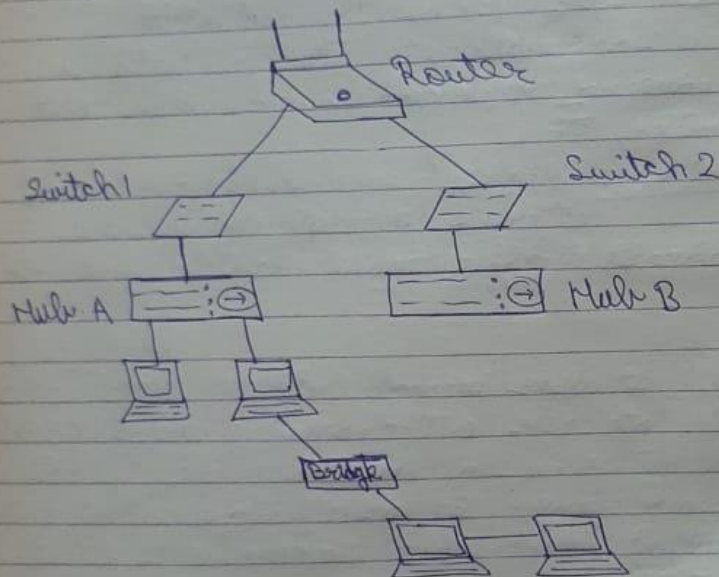**NAME:ROHAN NYATI**

SAP ID:500075940

ROLL NO. : R177219148

BATCH-5(AI&ML)
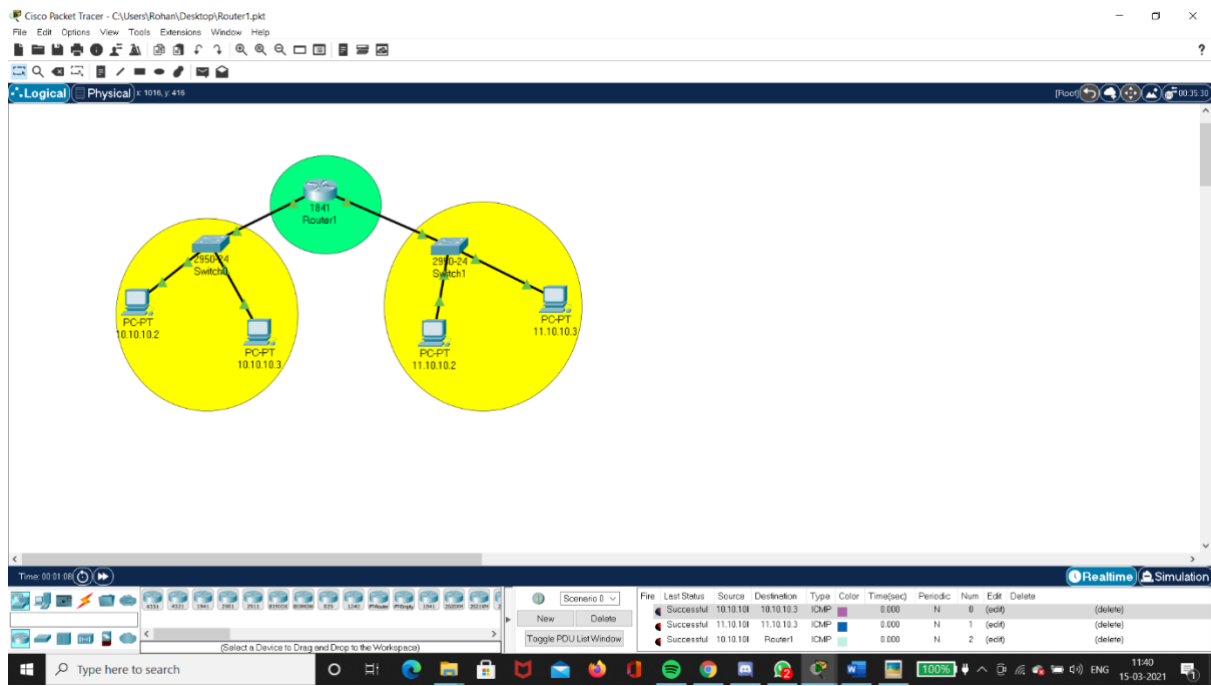
Experiment-6

Aim : to study basic of Routing

5.) __Router__ : It provides interconnection b/w two dissimilar networks. Router is mainly a Network layer device. It uses IP address for routing the Packets. The IP address of each host contain 2 parts viz. network address and host address.

Router
Switch 1
Switch 2
Hub A
Hub B
Bridge

__Advantages__ : It provides sophisticated routing, flow control and traffic isolated.

__Disadvantages__ : Highly expensive and slower as compared to other networking devices.

6.)

When we use one Router:-

When we use two Router:-