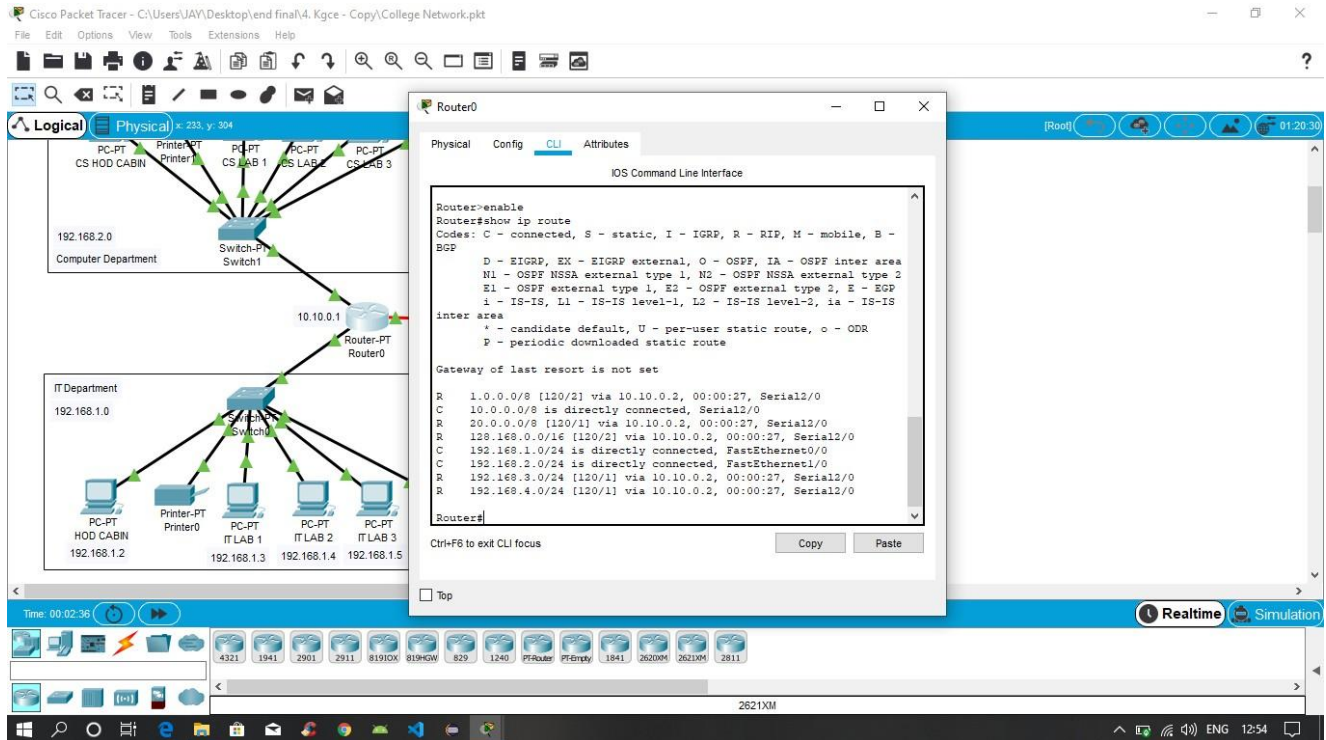
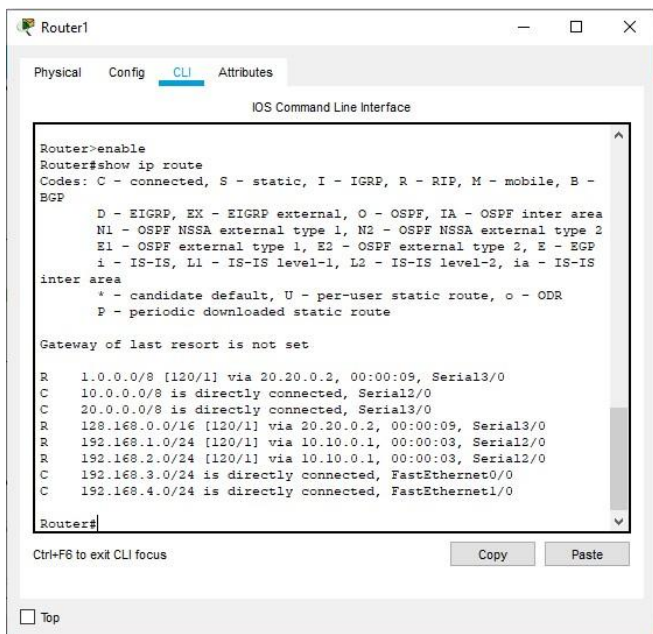


Routing Protocol Plan

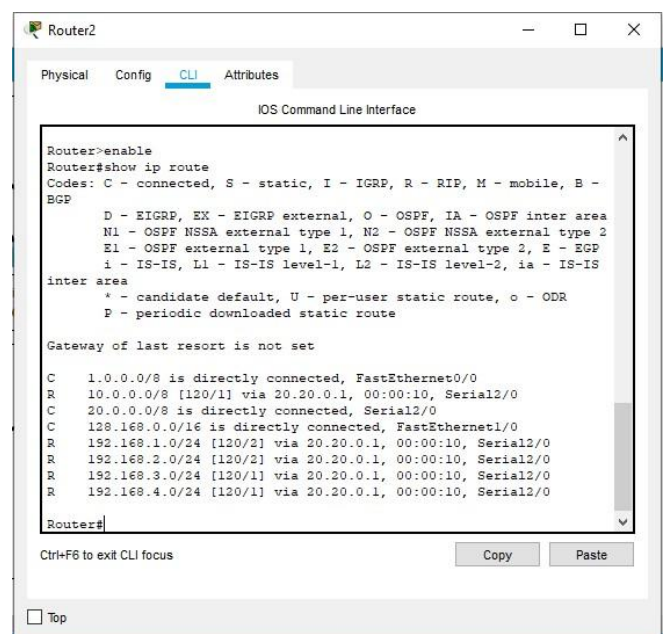
Routing Information Protocol (RIP) is a dynamic routing protocol which uses hop count as a routing metric to find the best path between the source and the destination network. It is a distance vector routing protocol which has AD value 120 and works on the application layer of OSI model.



Routing Protocol Plan for Router0

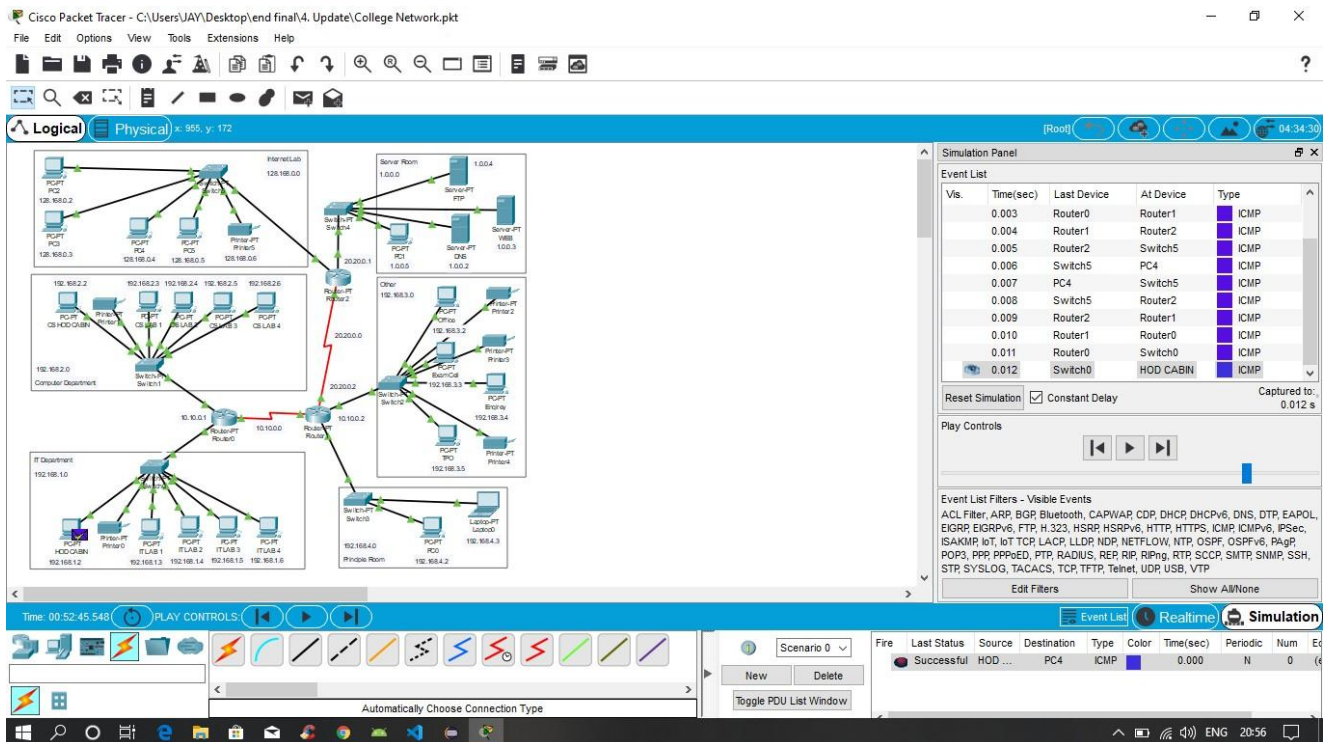


Routing Protocol Plan for Router1

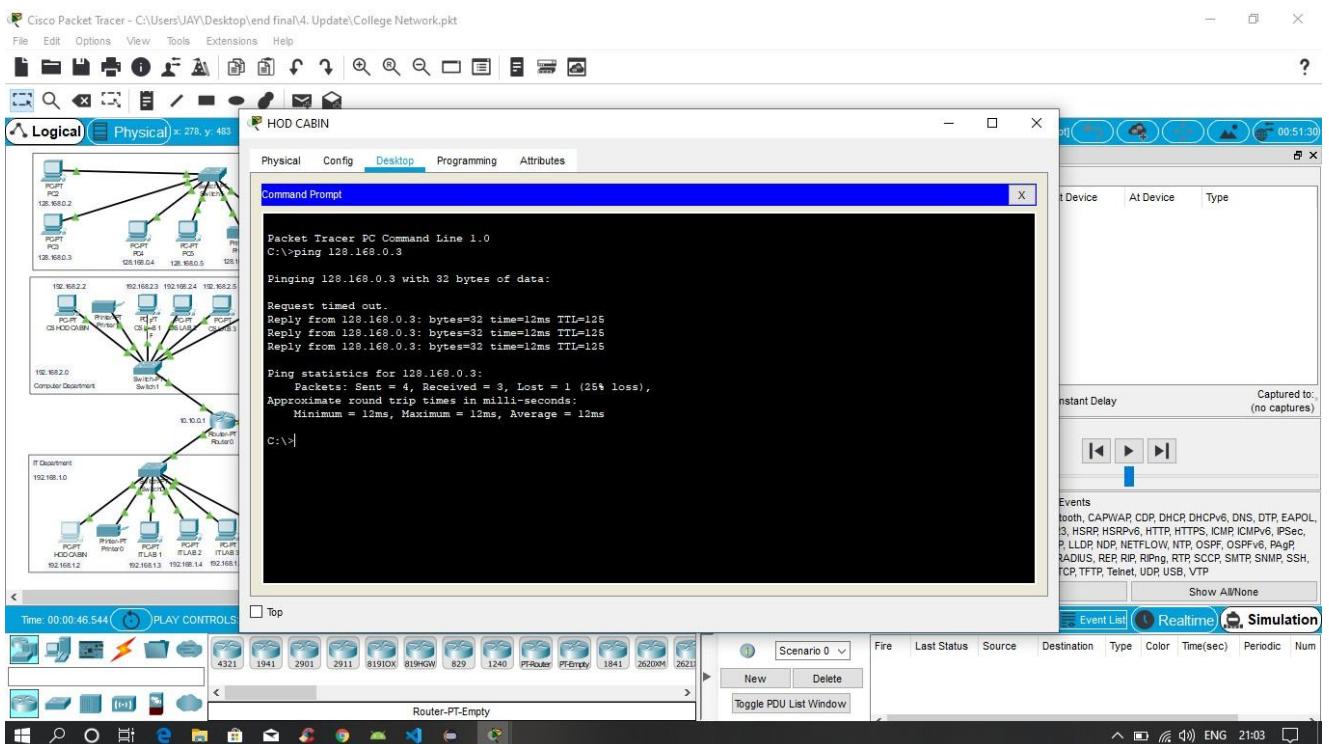


Routing Protocol Plan for Router2

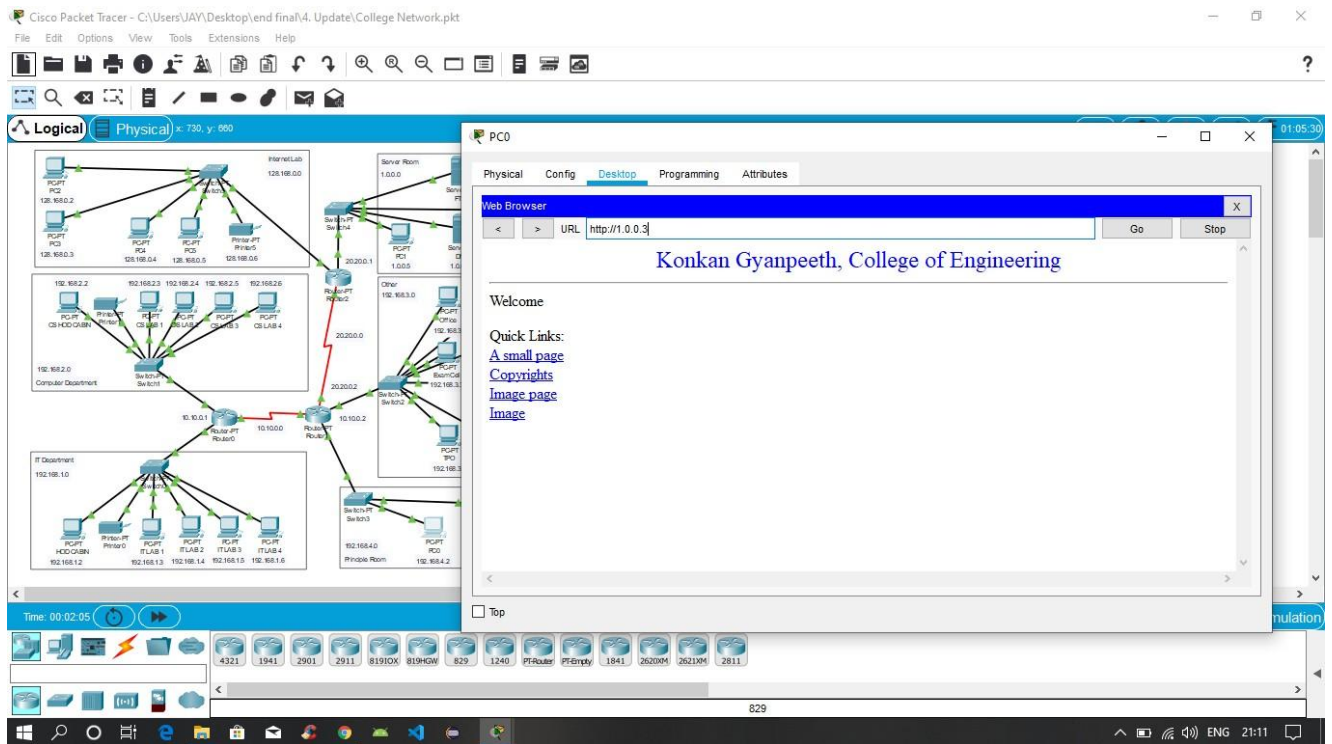
Network Design



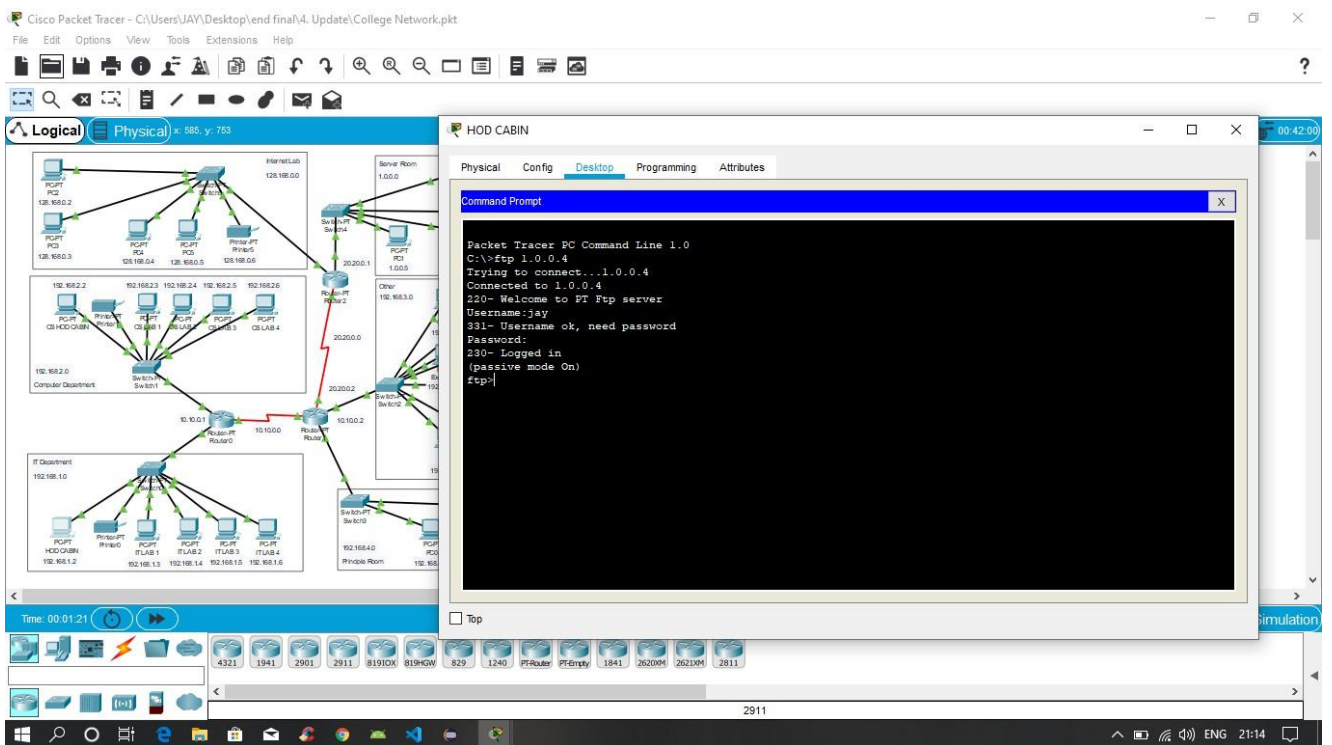
The prototype of the proposed network is implemented on cisco packet tracer



Testing VLAN communications from HOD Cabin to Internet Lab



Testing Web Hosting



Testing FTP Server

Summary

The outcome of the proposed system will be a fail-safe backbone network infrastructure which meets the requirements for readily available access to information and security of the private network, and also ensures optimized productivity when telecommunication services are accessed. The installed equipment allowed to organize high-speed wired and wireless Internet access throughout the whole complex of hospital buildings as well as providing transfer of all types of data throughout the single optimized network.

