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INTERNET PROTOCOL LAB – 9

SIMULATING COLLEGE NETWORK CONNECTIONS USING PACKET TRACER

AIM:

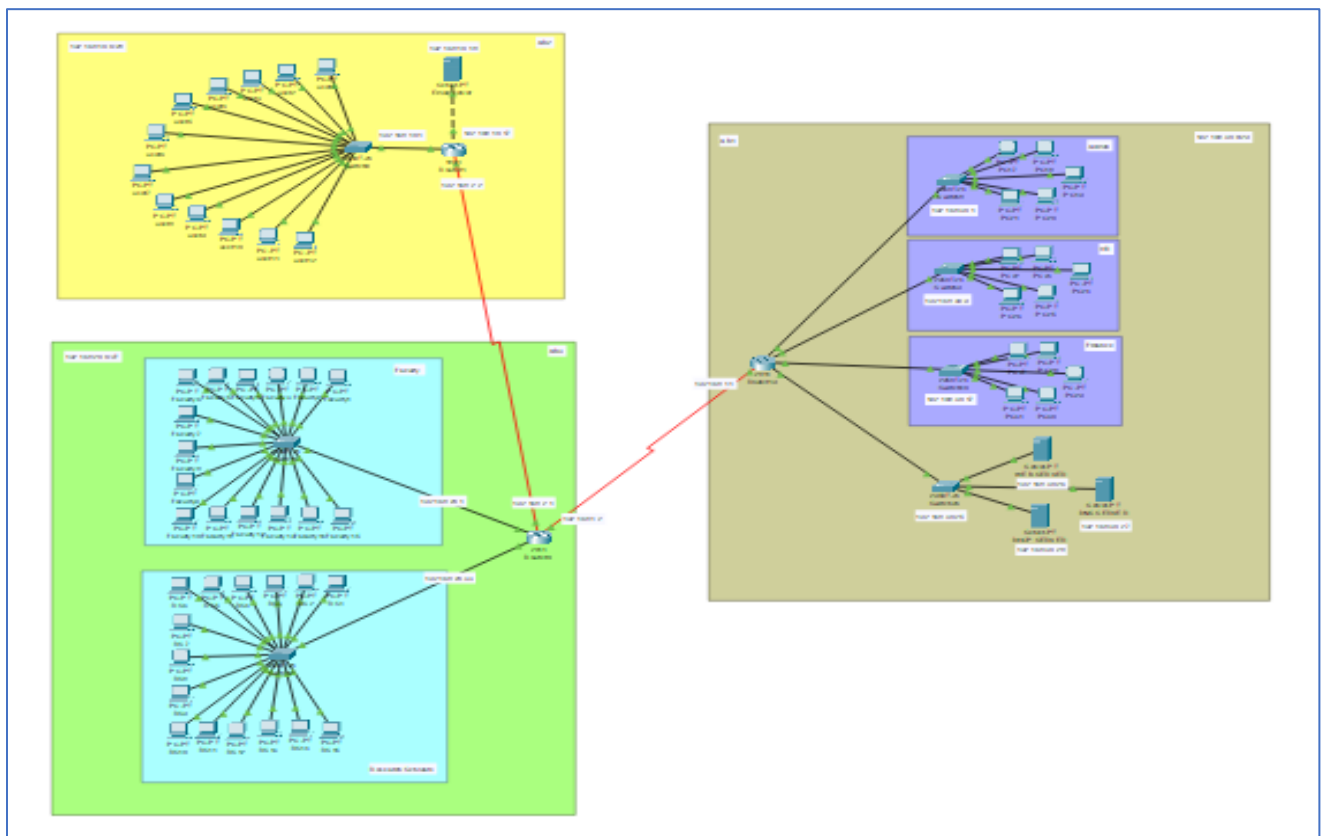
To configure college network connections using Cisco packet tracer.

TOOLS REQUIRED:

Cisco packet tracer.

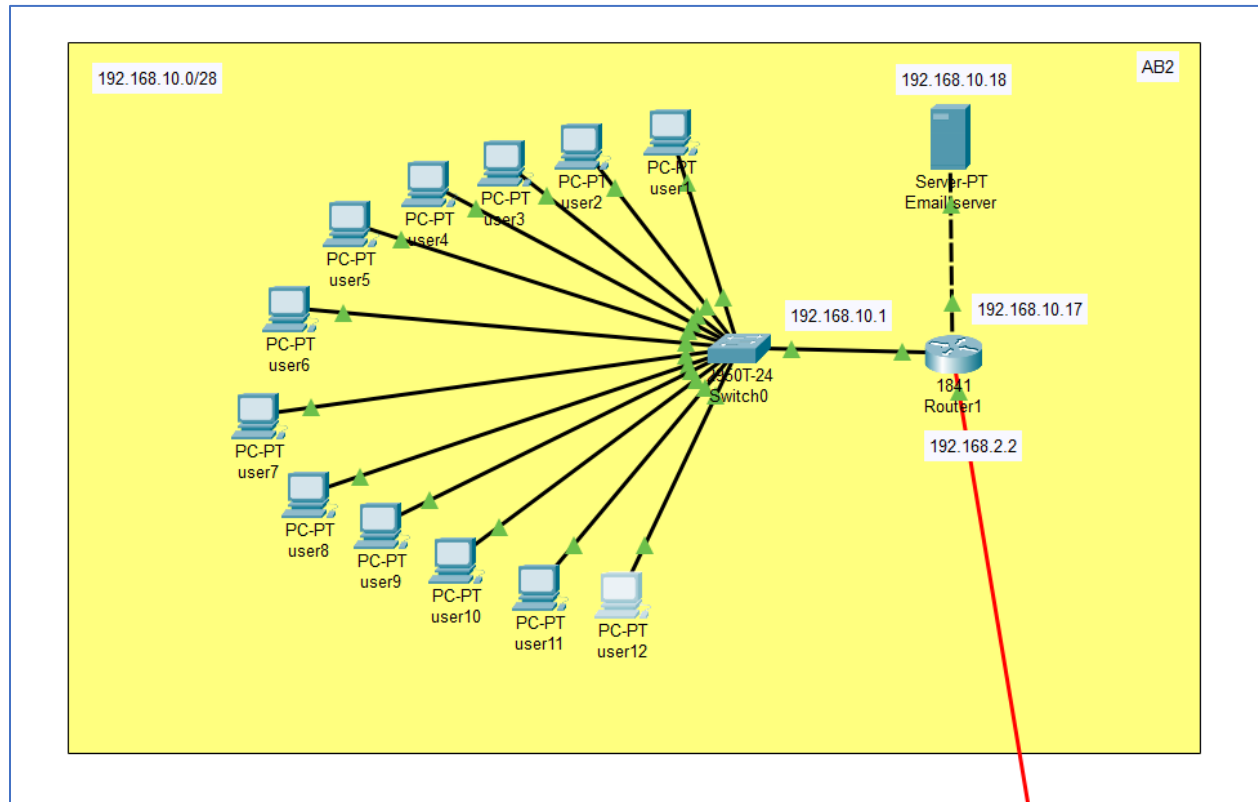
PROCEDURE:

This is the network configured using packet tracer.



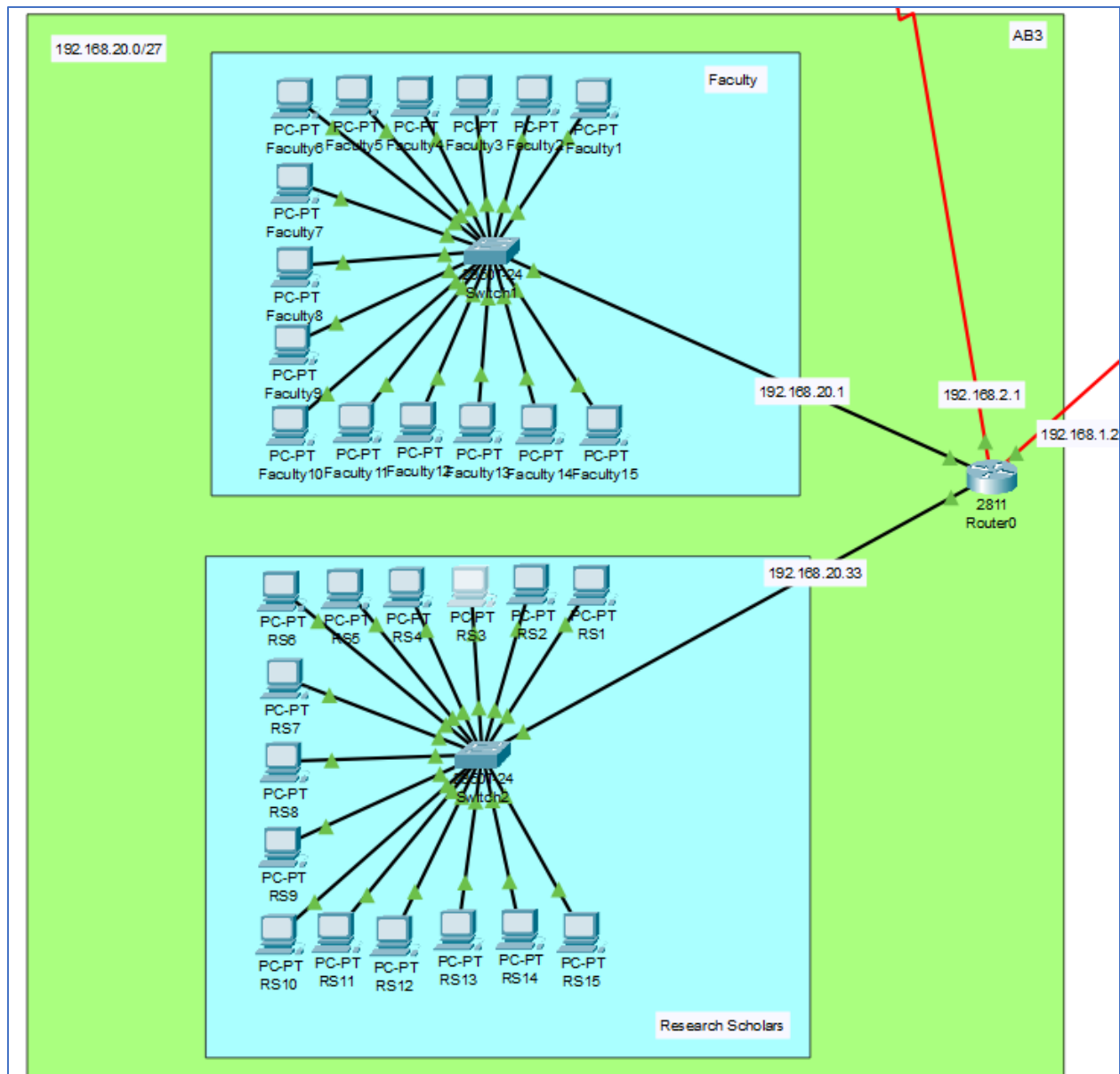
AB2 BLOCK:

1. This block has 12 systems with an email server.
2. This block uses the network 192.168.10.0/28.
3. The IP address of the interfaces of router are 192.168.10.1 and 192.168.10.17
4. The IP address of the PC range from 192.168.10.2 to 192.168.10.13
5. The IP address of the email server is 192.168.10.18



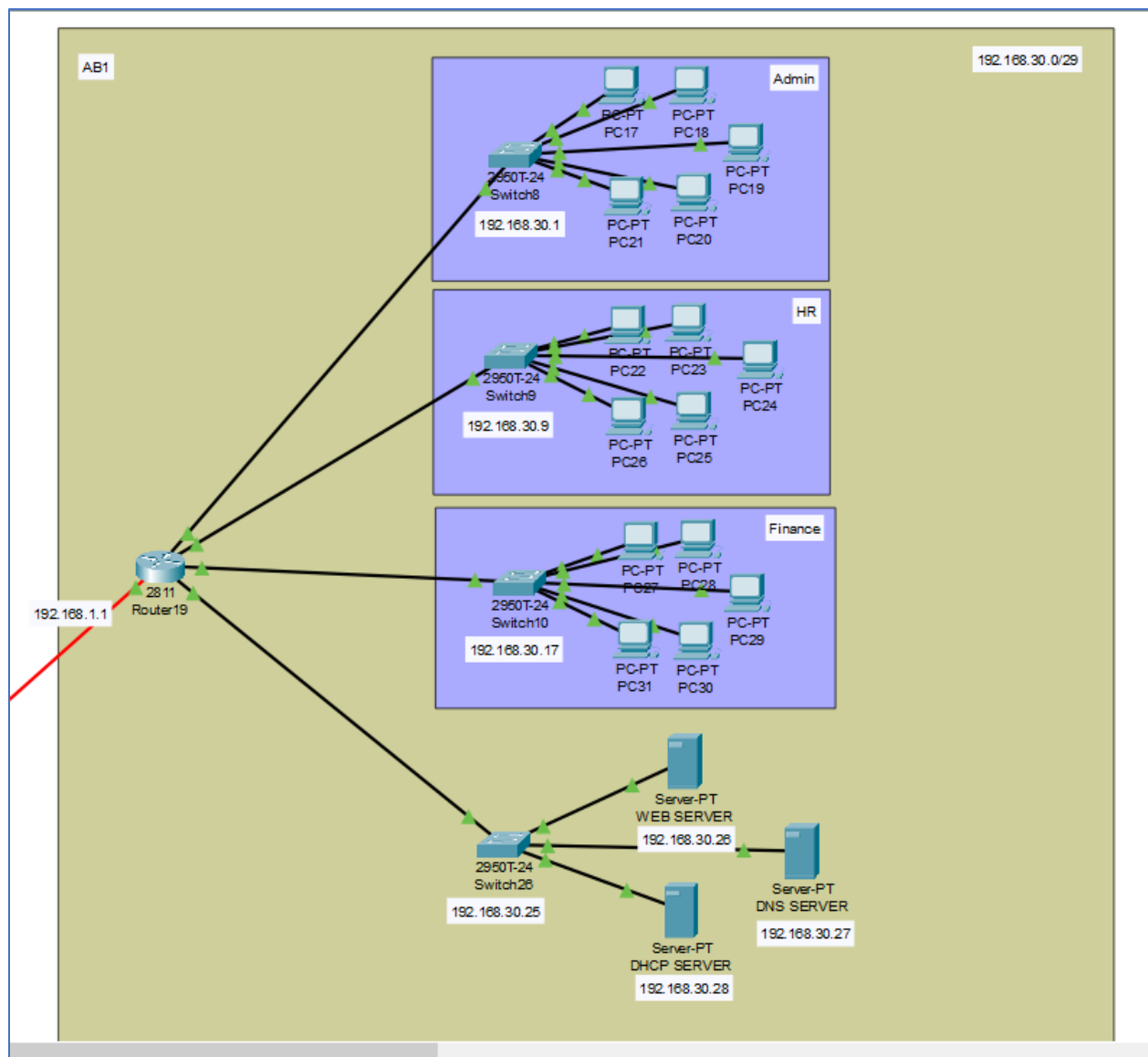
AB3 BLOCK:

1. This block has 2 departments: Faculty and Research scholars. Each has 15 systems.
2. This block uses the network 192.168.20.0/27.
3. The IP address of the interfaces of router are 192.168.20.1 and 192.168.20.33
4. Here the IP address for the systems is assigned dynamically through DHCP.
5. The IP address of the PC in Faculty department range from 192.168.20.2 to 192.168.20.15 and Research Scholar department range from 192.168.20.34 to 192.168.20.49



AB1:

1. This block has 3 departments: Admin, HR, Finance. Each has 5 systems. It also has web server, DNS server and DHCP server.
2. This block uses the network 192.168.30.0/29.
3. The IP address of the interfaces of router are 192.168.30.1, 192.168.30.9, 192.168.30.17, 192.168.30.25
4. Here the IP address for the systems is assigned dynamically through DHCP.
5. The IP address of the PC in Admin department range from 192.168.30.2 to 192.168.30.6, HR department range from 192.168.30.10 to 192.168.30.14 and Finance department range from 192.168.30.18 to 192.168.30.22
6. Web server : 192.168.30.26, DNS server : 192.168.30.27, DHCP server : 192.168.30.28



RESULT:

Thus, the college network has been successfully configured in Cisco Packet Tracer.