# LAB EVALUATION-2 - NETWORK PROGRAMMING

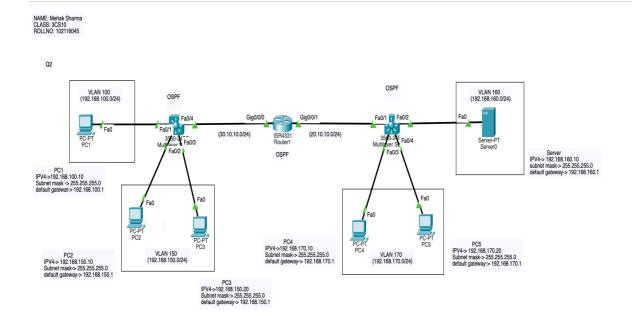
Name: Mehak Sharma

Group: 3CS10

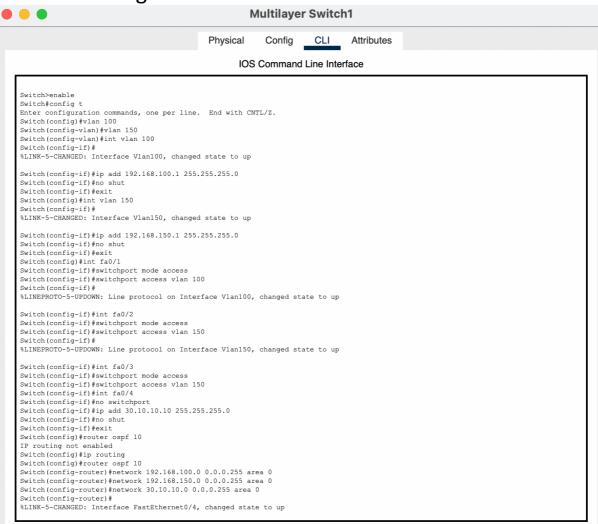
Roll number: 102116045

Q2

### **TOPOLOGY:**



## Switch-1 configuration:



# Router-1 configuration:



#### Router1

Physical

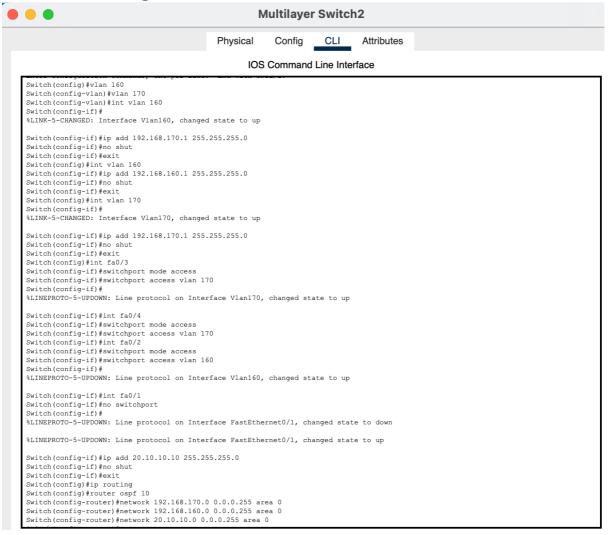
CLI

Attributes

#### IOS Command Line Interface

```
32768K bytes of non-volatile configuration memory.
4194304K bytes of physical memory.
3207167K bytes of flash memory at bootflash:.
0K bytes of WebUI ODM Files at webui:.
             --- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no
Press RETURN to get started!
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int gig0/0/0
Router(config-if)#ip add 30.10.10.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
Router(config-if)#exit
Router(config)#int gig0/0/1
Router(config-if)#ip add 20.10.10.1 255.255.255.0
Router(config-if)#no shut
 Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
Router(config=router) #extr
Router(config) #router ospf 10
Router(config=router) #network 30.10.10.0 0.0.0.255 area 0
Router(config=router) #network 20.10.
00:12:27: *ROSPF-5-ADJCHG: Process 10, Nbr 192.168.150.1 on GigabitEthernet0/0/0 from LOADING to FULL, router ospf 10
Router(config=router) #network 20.10.10.0 0.0.0.255 area 0
Router (config-router) #
00:19:20: %OGPF-5-ADJCHG: Process 10, Nbr 192.168.170.1 on GigabitEthernet0/0/1 from LOADING to FULL, Loading Done
```

### Switch-2 configuration:



## Show connectivity:

(i) PC1 -> PC2



(ii) PC2-> Server



(iii) PC4-> Server

