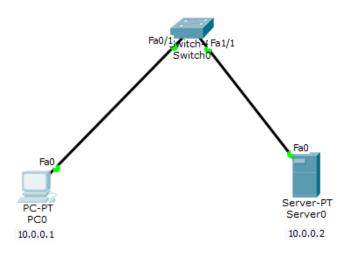
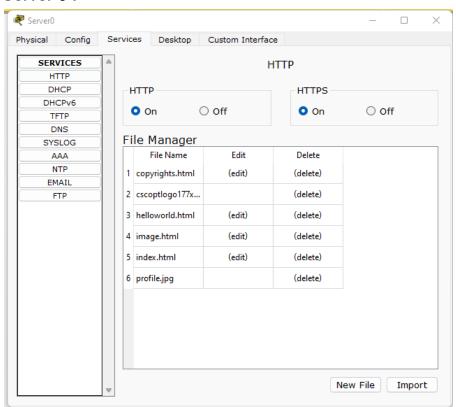
## LAB5:

Aim: Configure Web Server, DNS within a LAN.

# Topology:



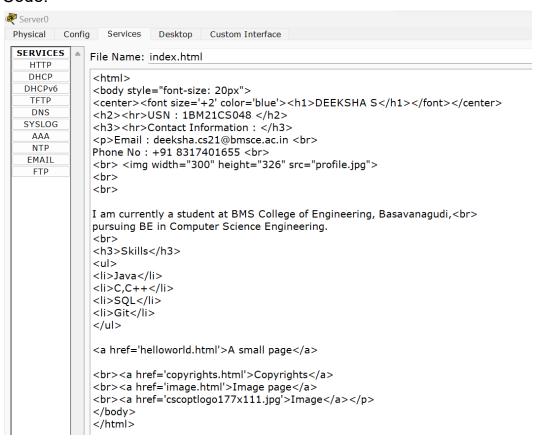
## Server 0:



## Website:



### Code:



20/7/23 Lab 5: Configure Web Server, ONS within a Topology: Fall1 Switch-PT Switcho Fall PC-PT PCO Sequer O 10.0.0.1 10.0.0.2 Procedure: -> The Network is started by selecting end devices PC-PT and Server-PT. → Select Switch-PT and all all of them in the workspace. → Connect PCO and Server O to Switch - O wing Copper Straight - Through cable > Set IP address for PCO and Server O Config → Fastethernet > IP address

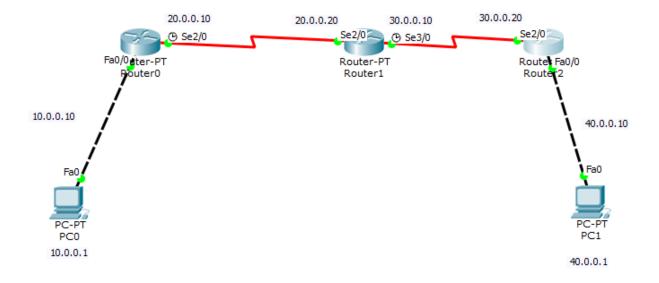


	PCD: 10.0.0.1
	PC Server 0: (0.0.0.2
->	Open desktop in PC -> Wesktop -> Web Browser
	In URL, type 10.0.0.2 and click 40.
	Open desktop in PC -> Desktop -> Web Browser In URL, type 10.0.0.2 and click Go. You can see Cisco Pocket Traces website.
-	In Serves 0, → Services → HTTP, then edit index.html.
	Code the HTML & CSS and create your CV.
	(1.1011.)
->	In PCO -> Desktop -> Webbrouger -> URL
	tube 10.0.0.d.
	The created CV will be visible.
->	In Server 0, -> Services -> DNS -> Oh
	Name = deeksha
	Address: 10.0.0.2
	Click on add.
	Observation :
	Observation:
->	In PCO -> Desktop -> Web browses -> URL When we type the domain name 'deeksha' The website created in Server O opens.
	When we type the doma in hame "deepelya"
	the website created in Server O Shene.
	No.
	2 <sup>cll</sup>

# LAB6:

Aim: Configure RIP routing Protocol in Routers.

# Topology:



# **Configuration:**

#### Router 0:



```
Physical Config CLI
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa0/0
Router(config-if) #ip address 10.0.0.10 255.0.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config)#interface se2/0
Router(config-if) #ip address 20.0.0.10 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if) #no shut
%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#exit
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 is directly connected, FastEthernet0/0
Routerf
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
```

#### Router 1:



```
Physical Config CLI
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface se2/0
Router(config-if) #ip address 20.0.0.20 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
exit
Router(config)#interface se3/0
Router(config-if) #ip address 30.0.0.10 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if) #no shut
%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#exit
Router(config) #show ip route
% Invalid input detected at '^' marker.
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       {\tt N1} - OSPF NSSA external type 1, {\tt N2} - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
С
         20.0.0.0/8 is directly connected, Serial2/0
С
         20.0.0.10/32 is directly connected, Serial2/0
Router#
 %LINK-5-CHANGED: Interface Serial3/0, changed state to up
```

#### Router 2:



Physical Config CLI

```
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface se2/0
Router(config-if) #ip address 30.0.0.20 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
exit
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config)#interface fa0/0
Router(config-if) #ip address 40.0.0.10 255.0.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config) #exit
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
        30.0.0.0/8 is directly connected, Serial2/0
С
        30.0.0.10/32 is directly connected, Serial2/0
     40.0.0.0/8 is directly connected, FastEthernet0/0
```

# **RIP** routing:

#### Router 0:

```
Routerf
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #network 10.0.0.0
Router(config-router) #network 20.0.0.0
Router(config-router) #exit
Router(config) #exit
Router#
SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
С
    10.0.0.0/8 is directly connected, FastEthernet0/0
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
        20.0.0.0/8 is directly connected, Serial2/0
С
       20.0.0.20/32 is directly connected, Serial2/0
    30.0.0.0/8 [120/1] via 20.0.0.20, 00:00:18, Serial2/0
    40.0.0.0/8 [120/2] via 20.0.0.20, 00:00:18, Serial2/0
Router#
```

#### Router 1:

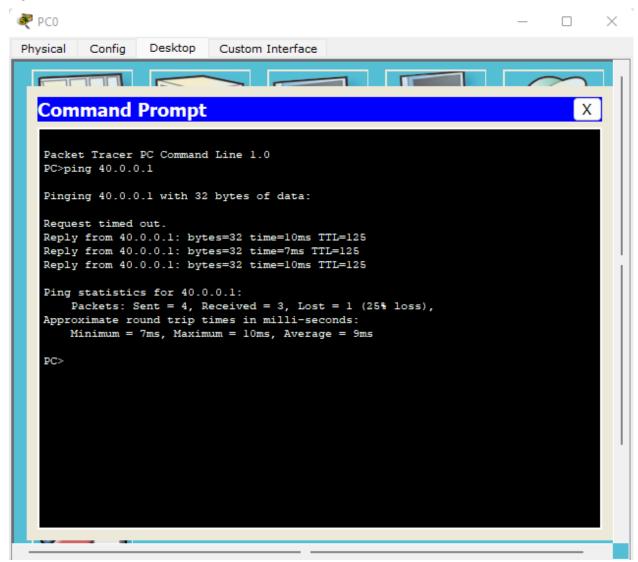
```
Router#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
Router(config-router) #network 20.0.0.0
Router(config-router) #network 30.0.0.0
Router(config-router) #exit
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 [120/1] via 20.0.0.10, 00:00:20, Serial2/0
R
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        20.0.0.0/8 is directly connected, Serial2/0
С
        20.0.0.10/32 is directly connected, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        30.0.0.0/8 is directly connected, Serial3/0
С
        30.0.0.20/32 is directly connected, Serial3/0
R
     40.0.0.0/8 [120/1] via 30.0.0.20, 00:00:19, Serial3/0
Router#
```

### Router 2:

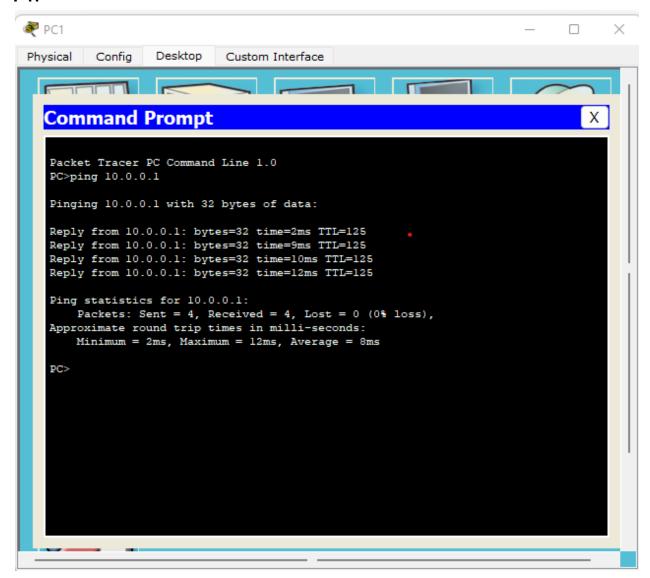
```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #network 30.0.0.0
% Invalid input detected at '^' marker.
Router(config) #router rip
Router(config-router) #network 30.0.0.0
Router(config-router) #network 40.0.0.0
Router(config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is not set
     10.0.0.0/8 [120/2] via 30.0.0.10, 00:00:14, Serial2/0
R
     20.0.0.0/8 [120/1] via 30.0.0.10, 00:00:14, Serial2/0
R
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
С
        30.0.0.0/8 is directly connected, Serial2/0
C
        30.0.0.10/32 is directly connected, Serial2/0
С
     40.0.0.0/8 is directly connected, FastEthernet0/0
Router#
```

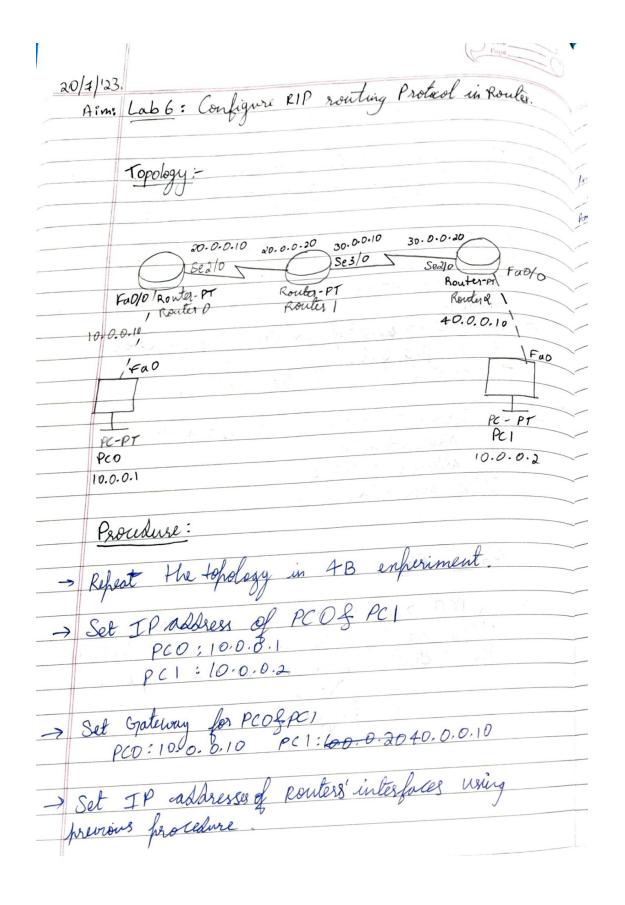
## **Command Prompt:**

## P0:



## P1:







Now:	*
Routes O:	
	Samuel Annie
tinter Pace verial 2/0	and the same
Or proheulation ppp	
clock rate 64000	7.1
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	Routes 0:  # interface revial 2/0  # encapsulation ppp clock rate 6+000  no shut enit  condisulation ppp no shut enit  interface se 3/0 encapsulation ppp clock rate 6+000  no shut enit  Routes 2:  merface se 3/0 encapsulation ppp clock rate 6+000  no shut enit  router 2:  merface se 3/0 encapsulation ppp un shut enit  interface se 3/0 encapsulation ppp un shut enit  interface fa 0/0 ha shut enit

Routes D: Router (config) # router rip Router (config - router) # network 10.0.0.0 Router (config - crouter) # network 20.0.0.0 exit Router 1: Router (config) # souter sip Router (config-router) # network 20.0.0.0 Router (config-router) # network 30.0.0.0 exit Routes 2'. Router (config.) # router zif
Router (Config. router) # network 30.0.0.0
Router (Config. router) # network 40.0.0.0
Router (Config. router) # enit emit IP routing: We see that in each Router C indicates direct connection. We see that RIP connection is established each Router

