

Experiment - 6 - Computer Communications

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Batch: CSE-02-TP304.

AIM:- ROUTING INFORMATION PROTOCOL (version 1)

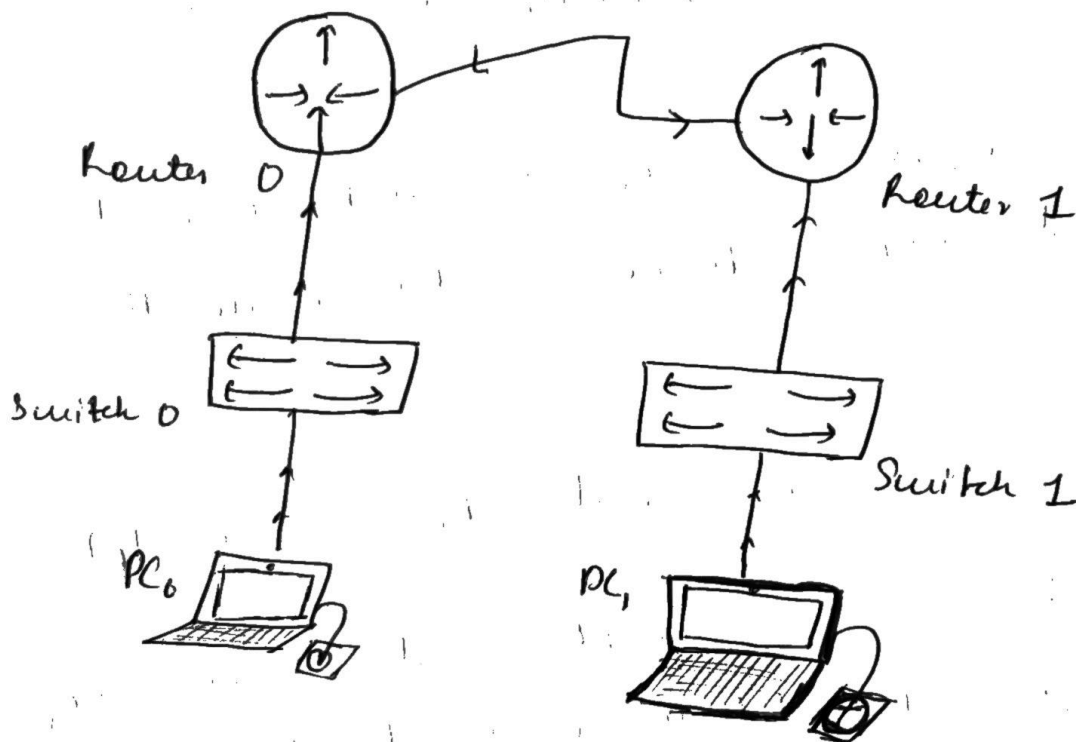
To configure RIP v1, routing between two routers.

PROCEDURE:-

- ① Take 2 H-router, 2 2950-24 switches and 2 PC's and connect them as shown in the screenshot.
- ② Connect routers using serial cable (serial 2/0).
- ③ Now click on each router and go to config and assign IP address in serial 2/0 and fast ethernet 0/0 and turn them on.
- ④ Assign unsigned IP addresses, click on each router → go to config and give network addresses and add them in RIP.

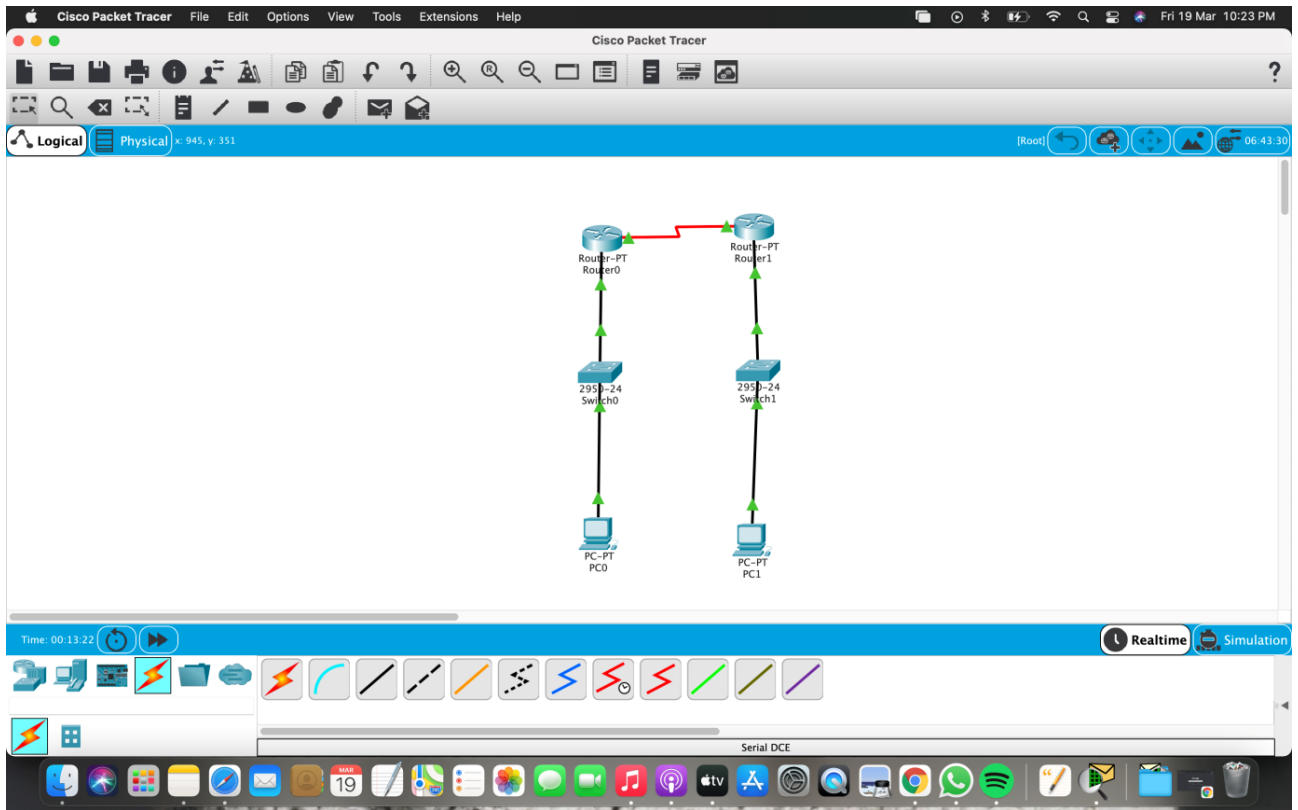
- ⑤ Now Assign IP addresses to pin with respective gateway addresses.
- ⑥ After all then ping using Network address and IP address in command prompts at PC's.

Diagram:-



Result:-

RIP v.1 routing between two routers have been established.



Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

RIP Routing

Network

Add

Network Address

10.0.0.0

192.168.1.0

Remove

Equivalent IOS Commands

```
Router0(config)#router rip
Router0(config-router)#network 10.0.0.0
Router0(config-router)#network 192.168.1.0
Router0(config-router)#end
Router0(config)#interface serial2/0
Router0(config-if)#ip address 10.0.0.1 255.255.255.0
Router0(config-if)#no shutdown
Router0(config-if)#exit
Router0(config)#interface serial3/0
Router0(config-if)#ip address 192.168.1.1 255.255.255.0
Router0(config-if)#no shutdown
Router0(config-if)#exit
```

00:17:45

Realtime

