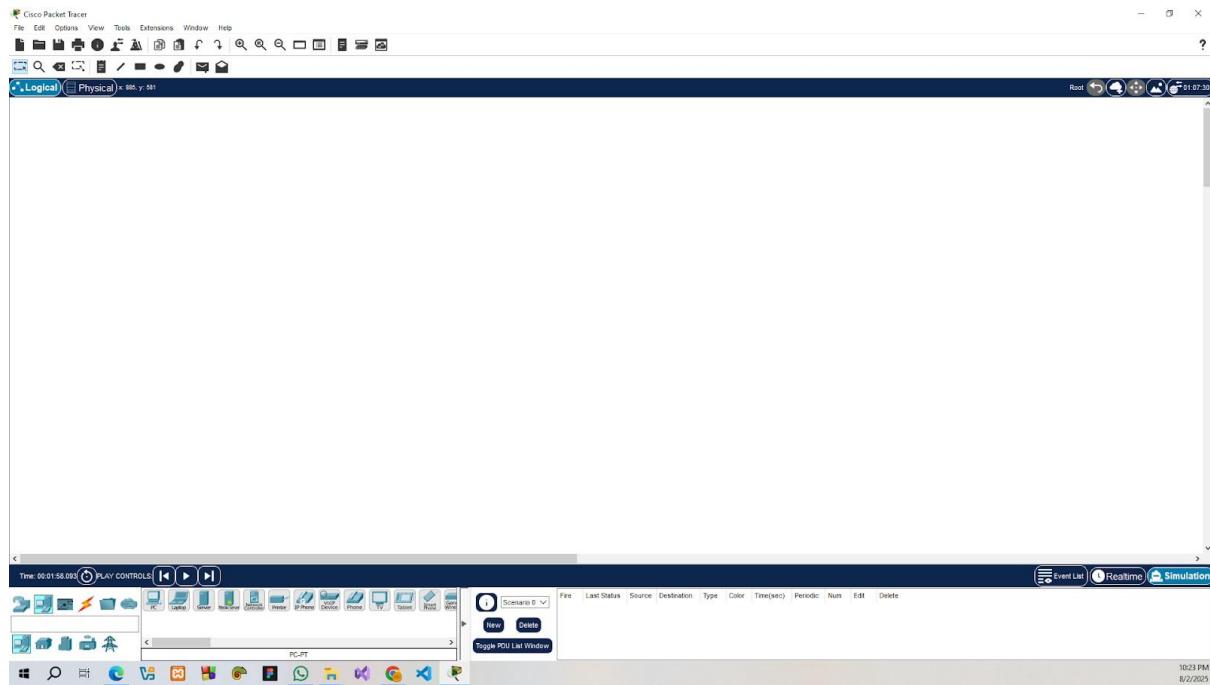


Experiment Name: Dynamic Routing Configuration-RIP

Devices and Component List: Device name Cisco Packet Tracer

Step 1: First of all, start Cisco Packet Tracer



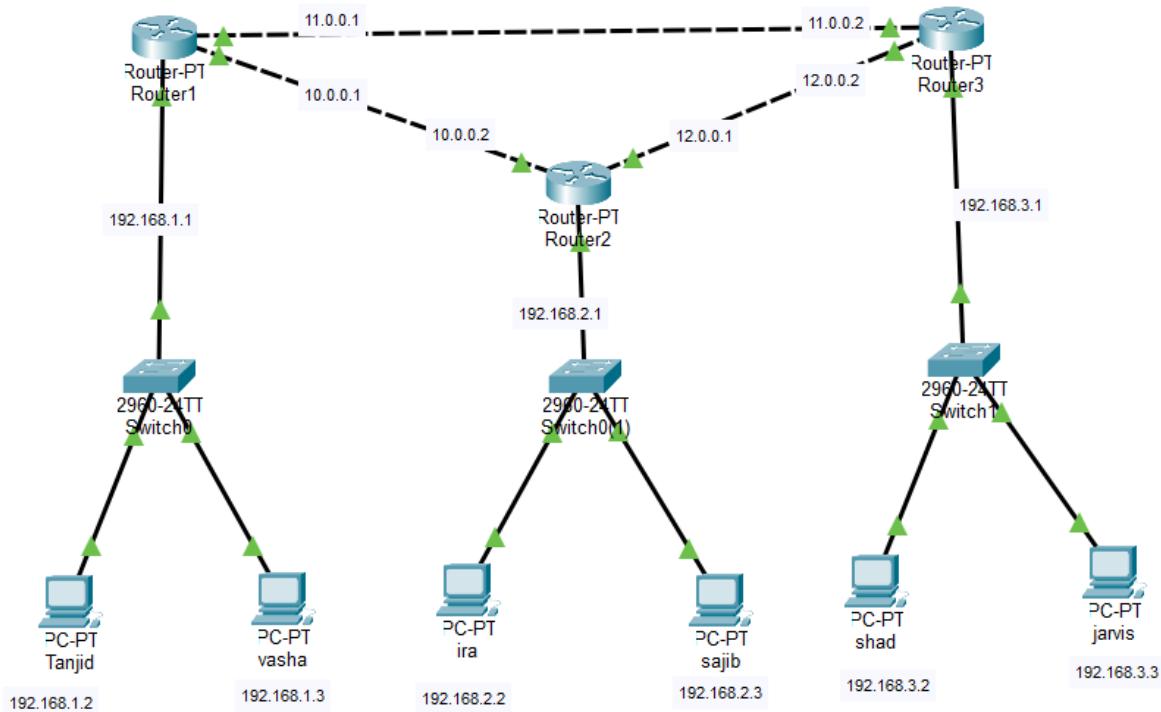
Step 2 : Before setting up the network layout, it's important to first decide which devices (like routers, switches, and end-user equipment) to use and determine how they will be connected. This selection process ensures the network will function effectively once built.

We will use **Switches, Connections, Devices (PC), and Routers**.



Step 3: Creating the network by connecting all required devices.





Step 4: Setting up the router's port in Physical mode. After setting up the router port, configure the router in the CLI by giving some command. Which are shown below. As our network has only two Ethernet ports, we will only configure the ports fa0/0 & fa1/0.



Step 5: I have written the code to configure the 3 Router.

Router 1:

```
Int f0/0 192.168.1.1 255.255.255.0, int f0/1 10.0.0.1 255.0.0, intf2/0 11.0.0.1 255.0.0
```

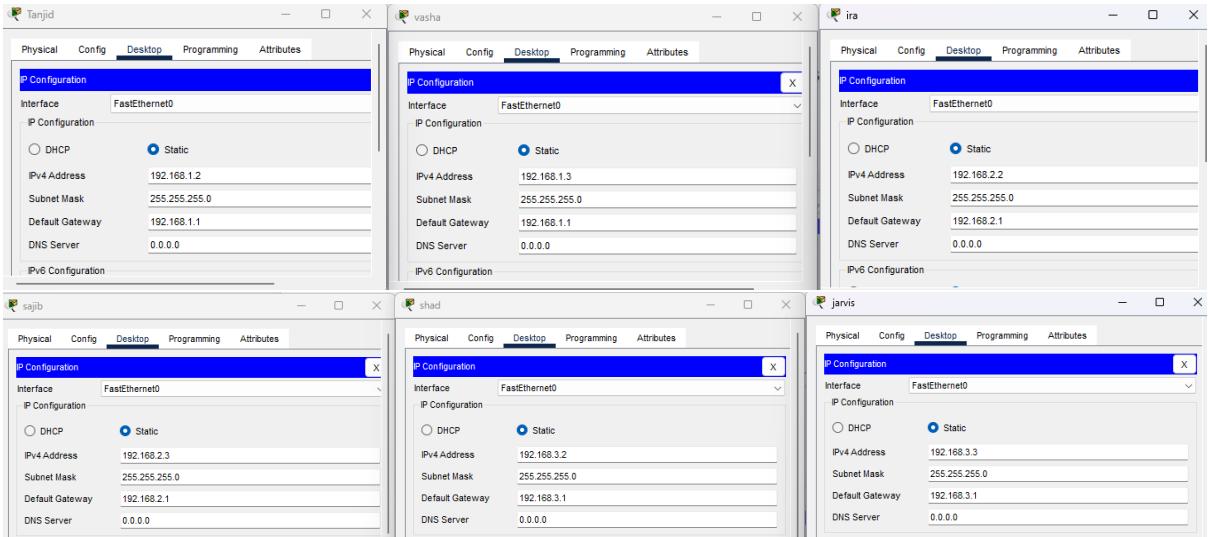
Router 2:

```
Int f0/0 10.0.0.2 255.0.0.0, int f0/1 10.0.0.1 255.0.0, intf2/0 192.168.2.1 255.255.255.0
```

Router 3 :

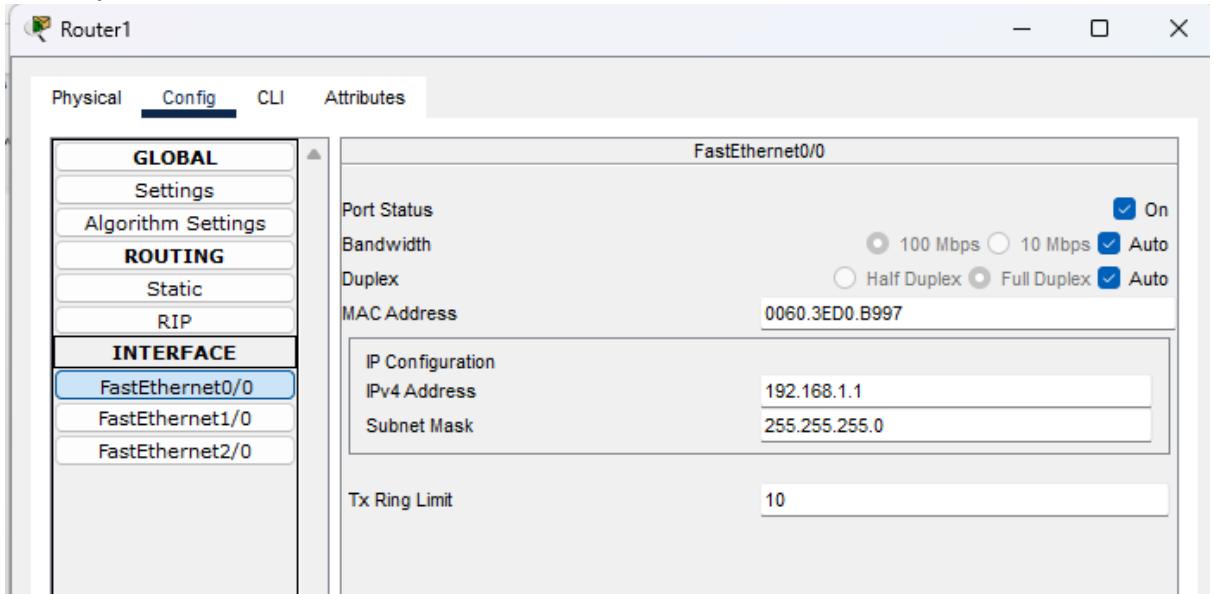
```
Int f0/0 12.0.0.2 255.0.0.0, int f1/0 11.0.0.2 255.0.0, intf2/0 192.168.3.1 255.255.255.0
```

Step 6: Assign a unique IP address, subnet masks, and a default gateway to each end devices.

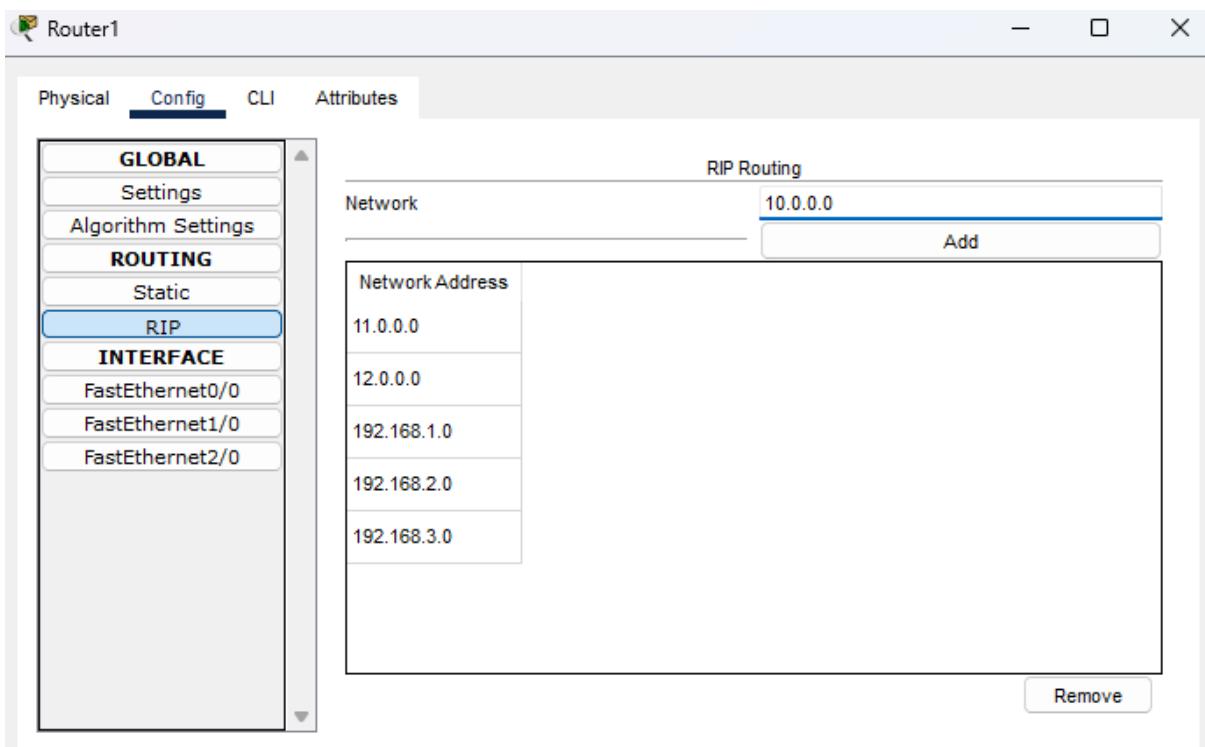


ROUTER RIP Configurations:

1. Now open the Router :

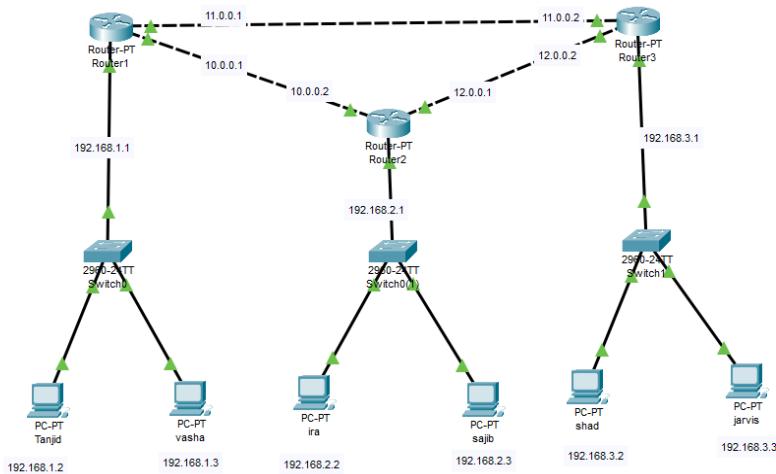


2. Now Go to RIP and give IP address of All Routers:

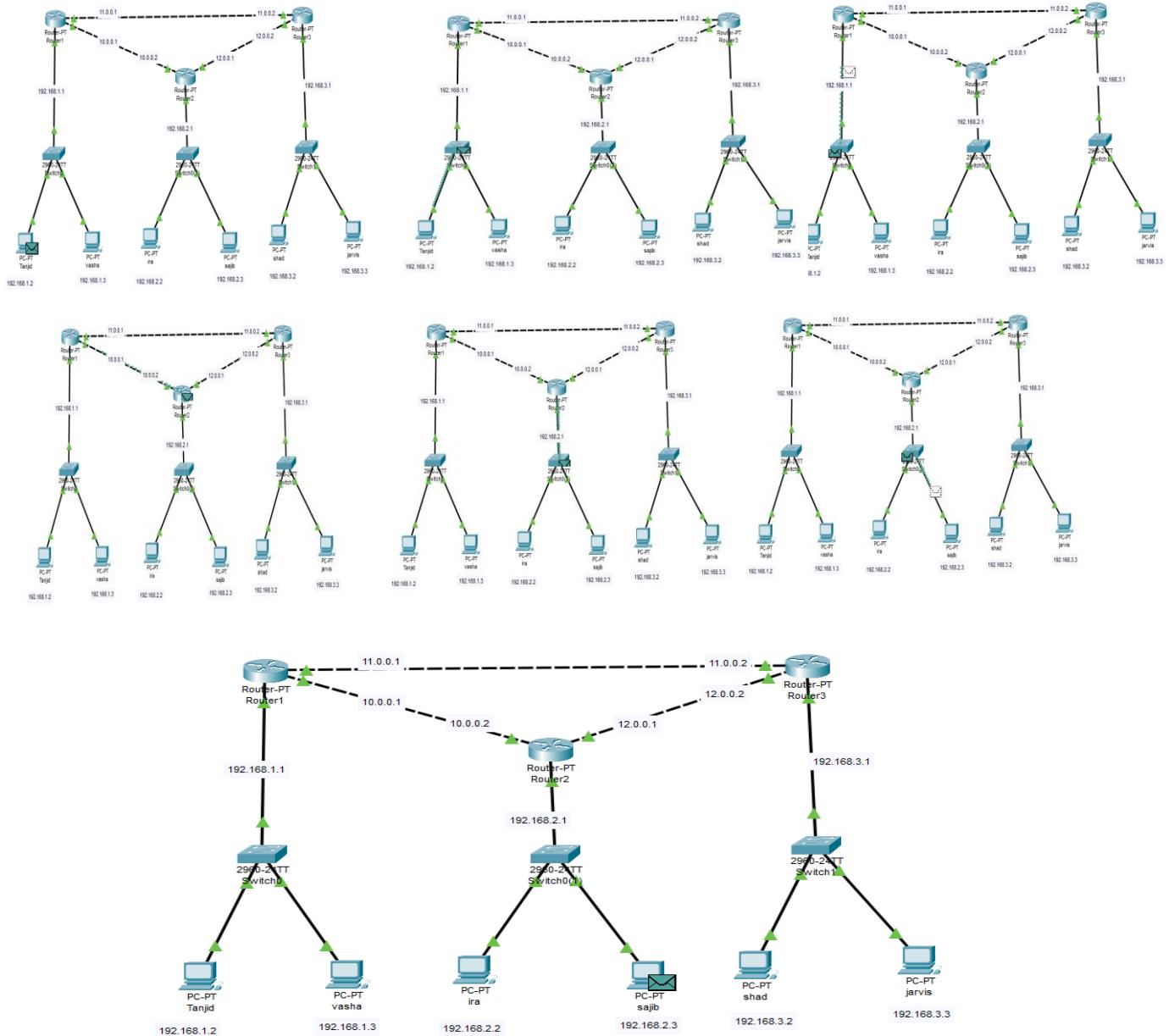


We setup all the routers to setup RIP Successfully.

Testing Each End device to send packets:



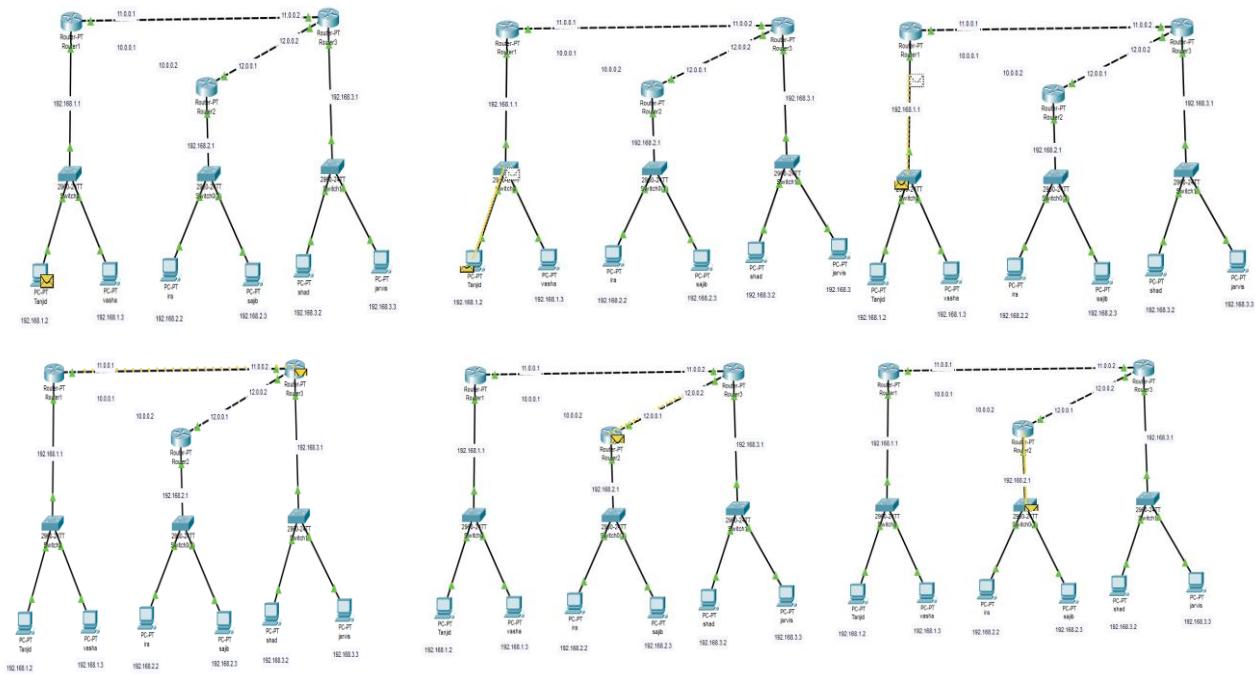
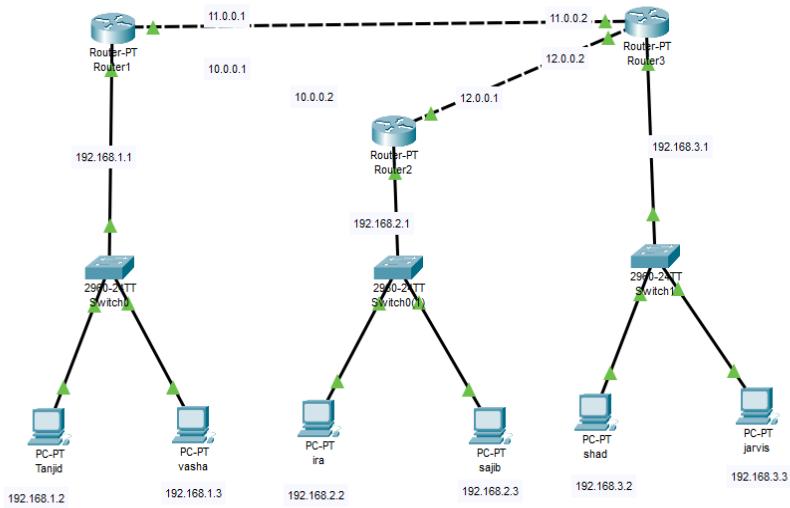
1. Now we send packet from Tanjid to Sajib:

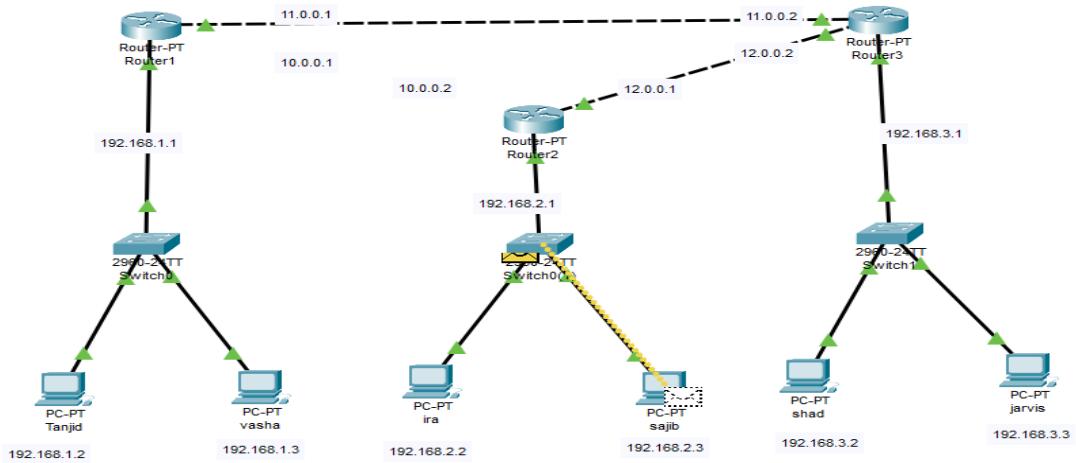


In the Above we visualize the how packet send from Tanjid to sajib here using route is (192.168.1.0, 10.0.1, 192.168.2.0) and if we see the output

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
	Successful	Tanjid	sajib	ICMP		0.000	N	0	(edit)	(delete)	

- Now we Testing the RIP how works and visualize we remove a path connection router-1 to router-2:





In the Above we visualize the how packet send from Tanjid to sajib here using route is (192.168.1.0, 11.0.1, 192.168.2.0) beside we remove the one path but we successfully send packet via **RIP**.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
<input checked="" type="radio"/>	Successful	Tanjid	sajib	ICMP	 	0.000	N	0	(edit)	(delete)