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EXPERIMENT-1

AIM:
To know basic network packet tracer functionality.

TASK TO BE DONE:
Build a basic network create the design in cisco packet tracer

PROCEDURE:

1. Open the Cisco packet tracer, on the left bottom there are multiple ~~network~~ device. Select 4 router 2911.

2. Click on the router, remove the network accordingly in physical tab, turn off the tab add 2HWIC-2T multiple module in the 1st & 3rd router and 1HWIC-2T in 2nd and 4th router and turn the routers on.

3. Now select the cross cable wire from the connection tab and connect the routes.

4. Select Router-1, go to serial 0/2/0 give

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ip address.
Then serial 0/2/1 give the ip address the serial ip 0/3/0 give them the ip and turn on the port.

5. Select router - 2 go to serial 0/2/0 give the ip & give ip to serial 0/2/1, then the port on.

6. Do the same for router 3 & 4.

7. Now, select multiple PC's drag them into the workshop & connect them with the switch to router.

8. Click on PC, select the desktop & go to IP, then enter IP.

9. After assigning IP address and defaut gateway, click on routers in config tab, select RIP then enter network id, to which router is connected to.

10. From the top right corner, pick the message and set the resource PC and destination PC.

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CONCLUSION:

We send and receive packets over the internet successfully and each device is able to communicate with each other.

Hence, the expriment is implemented.

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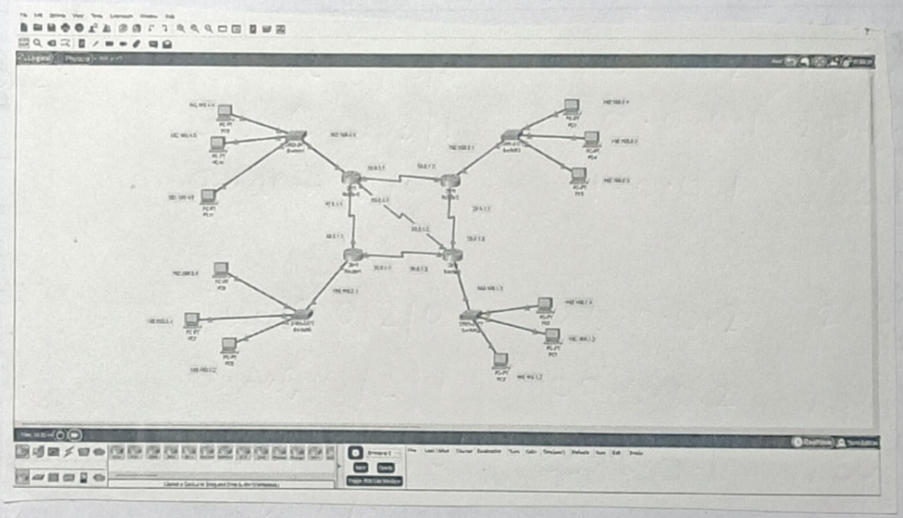

Rip Routing :-

Router 1 : 10.0.0.0 11.0.0.0 40.0.0.0 50.0.0.0

Router 2 : 10.0.0.0 20.0.0.0 11.0.0.0

Router 3 : 20.0.0.0 50.0.0.0 30.0.0.0 13.0.0.0

Router 4 : 12.0.0.0 30.0.0.0 40.0.0.0

- Configuration :-

Device	Port	Ip address	Subnet
• Router 1	Serial 0/2/0	10.0.0.1	255.0.0.0
	Serial 0/2/1	40.0.0.1	255.0.0.0
	Serial 0/3/0	50.0.0.1	255.0.0.0
	gigaEth 0/0	11.0.0.3	255.0.0.0
• Router 2	Serial 0/3/0	10.0.0.2	255.0.0.0
	Serial 0/3/1	20.0.0.1	255.0.0.0
	gigaEth 0/0	14.0.0.1	255.0.0.0
• Router 3	Serial 0/2/0	20.0.0.2	255.0.0.0
	Serial 0/2/1	50.0.0.2	255.0.0.0
	Serial 0/3/0	30.0.0.1	255.0.0.0
	gigEth 0/0	13.0.0.1	255.0.0.0
• Router 4:	Serial 0/3/0	40.0.0.1	255.0.0.0
	Serial 0/3/1	30.0.0.2	255.0.0.0
	gigaEth 0/0	12.0.0.1	255.0.0.0