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Experiment 1

AIM: Understanding how a router works

Procedure:

Make connections using 2 PC's and one router. On connecting the ends are in red as they need to be configured.

To make things easy we need to label each PC with its IP address.

Click on the PC0 and go to config then fastethernet, and configure the ip address and click on subnet mask. Follow the same procedure for other PCs.

In the config tab, click on settings and configure the gateway too which is the place that allows a PC to communicate with the outside world.

Now the IP and gateway of both PC0 and PC1 are configured, we need to configure the interface of the router.

Click on the router followed by CLI, we must follow the below instructions:-

enable

config terminal

interface fastethernet 0/0

ip address 10.0.0.10 255.0.0.0

no shutdown

Same procedure for all the other routers

Observation:

By pinging, we can communicate between the PC's and the router.