CNT Assignment 3

* **Aim :** Using a network simulator (eg packet tracer) configure router Using router commands .

* **Theory :**

A router is a networking device that forwards data packets between computer networks .

— Configuration commands :

i) set hostname
ii) set secret password (encrypted)
iii) set enable password
iv) set virtual terminal password
v) set interface Fast Ethernet
vi) set IP Address to 10.0.01
vii) set subnet to default 255.0.0.0
viii) solve current configuration

— To configure for Fast Ethernet 0/1

i) $P_1 >$ en : Enable command :

When we log in, it starts off in user mode, (command promp look like >). To move to priviledged mode like # type enable (en).

ii) Config terminal

To go to global configuration mode, type config terminal (or config t) where the prompt terminal looks like router config #. Here, we can change global parameters.

iii) Interface command
R₁ (config) # int fa 0/1

To change parameter on an infterface (like IP address) go to interface configuration mode ~~mode~~ with interface command.

R₁ (config_if) # ip addr 20.0.01 255.0.0.0

iv) no shutdown
R₁ (config) # no shutdown

The no shutdown command enables an interface. Must be used in interface configuration mode.

v) exit

exit : To exit from mode

PC configuration :

PC 1 : Set IP address, default subnet mask & gateway set for
PC 2 : Set IP address, default subnet mask & gateway for fo

* Conclusion : Thus we can configure router using router commands