## **Week 5 – IP Configuration (Summary)**

- 1. PC IP Configuration => using GUI (Desktop > IP Config)
  - IP Address
  - Subnet Mask (show the network and host arrangement for the given IP)
  - Default Gateway (router IP address based on the port used to connect to outside network)
- 2. Router IP Configuration => Using CLI

Router(config)#int gig0/0

Router(config-if)#ip add 192.168.10.1 255.255.255.0

Router(config-if)#desc This is LAN to S1

Router(config-if)#no shut

Router(config-if)#exit

- 3. Test IP configuration
  - Ping from source to destination

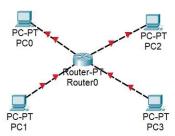
Router# ping 192.168.10.60

\*\*or using the Automatic ping (Envelop)

• If ping from PC, use command prompt

## **Additional Information**

- 1. IP v4 address must be in:
  - 32 bits binary
  - Consists of 4 octets only, and each octet is 8 bits binary.
  - Each octet can only range between (0 to 255 only in decimal)
- 2. Router is the device which can split the networks or combine few networks together.
- 3. There is no need to configure IP address at the Switch for the network to be able to send data / ping. Therefore, you cannot ping from / to the switch.
- 4. Each router interface (router port) used, should be assigned with one IP address (if you have 4 lines connected to / from the router, it means the router needs 4 different IPs)



5. You must make sure that the router port (interface) is visible on the network diagram to avoid making mistake while assigning the IP address.

