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1) Configuration and logging to a Cisco Router introduction to the basic user interfaces. Introduction to the basic router interfaces and basic commands using cisco packet Tracer.

=> *Router 0

interface 1 : 192.168.1.1 (subnet 1)
interface 2 : 192.168.2.1 (subnet 2)
interface 3 : 192.168.3.1 (subnet 3)

*Subnet 1 (connected via switch 0 & switch 1)

Network : 192.168.1.0/24
Default Gateway : 192.168.1.1

Devices :-

PC 1 (192.168.1.2)
PC 2 (192.168.1.3)
PC 3 (192.168.1.4)
PC 4 (192.168.1.5)
PC 5 (192.168.1.6)
PC 6 (192.168.1.7)

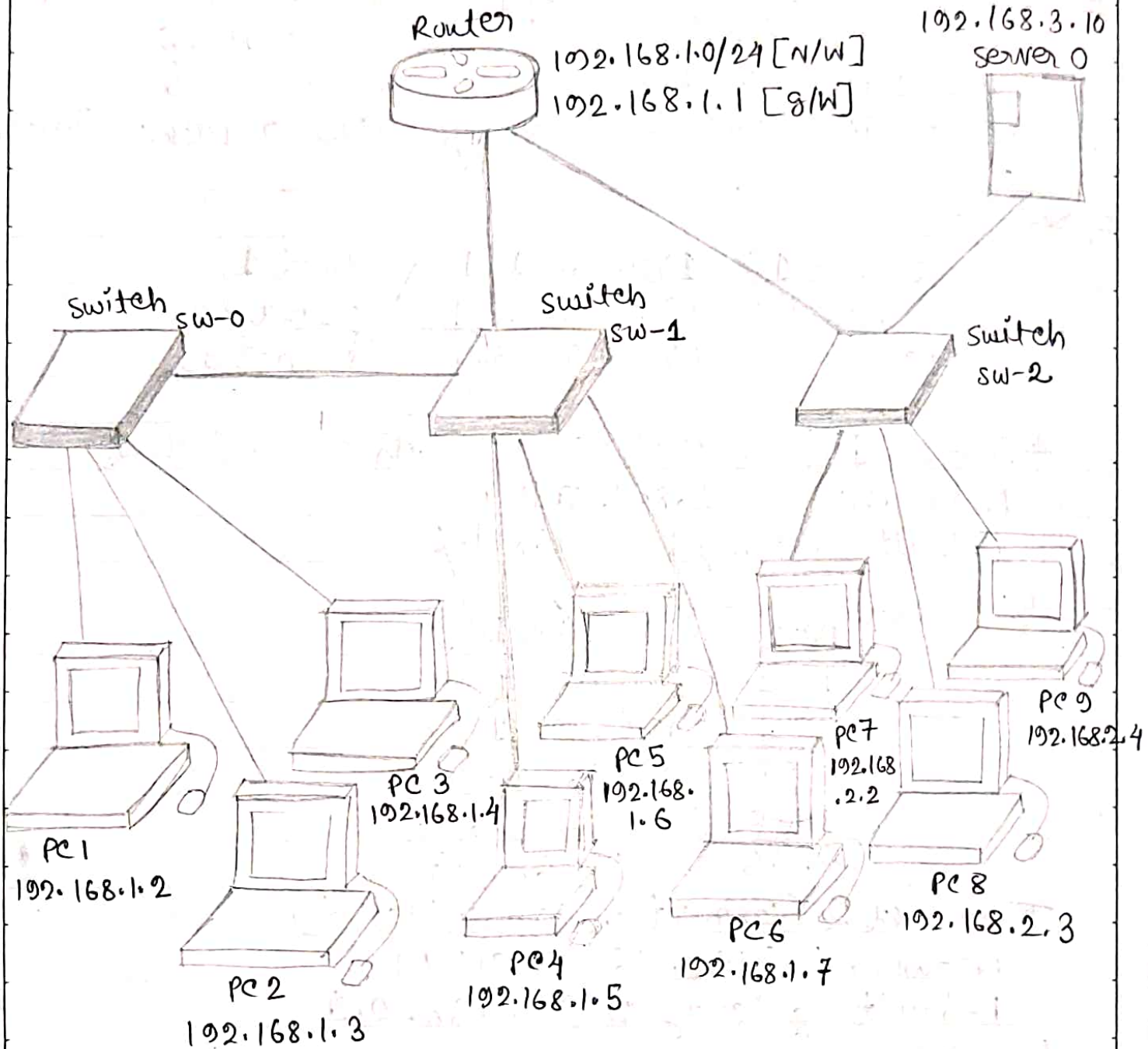
*Subnet 2 (connected via switch 2)

Network : (192.168.2.0/24)
Default gateway : 192.168.2.1

Devices :-

PC 7 (192.168.2.2)
PC 8 (192.168.2.3)
PC 9 (192.168.2.4)

Teacher's Signature:


Router
192.168.1.0/24 [N/W]
192.168.1.1 [S/W]
192.168.3.10
server 0
switch sw-0
switch sw-1
switch sw-2
PC 1
192.168.1.2
PC 2
192.168.1.3
PC 3
192.168.1.4
PC 4
192.168.1.5
PC 5
192.168.1.6
PC 6
192.168.1.7
PC 7
192.168.2.2
PC 8
192.168.2.3
PC 9
192.168.2.4

* Subnet 3 (server network)
network : 192.168.3.0124
Default gateway : 192.168.3.1

Devices

server 0 (192.168.3.10)

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2) Configuration of Ip addresses for a given network scenario for a given set of topologys (using Cisco Packet tracer)
Configure a Web server on a given network scenario (Using cisco packet tracer)

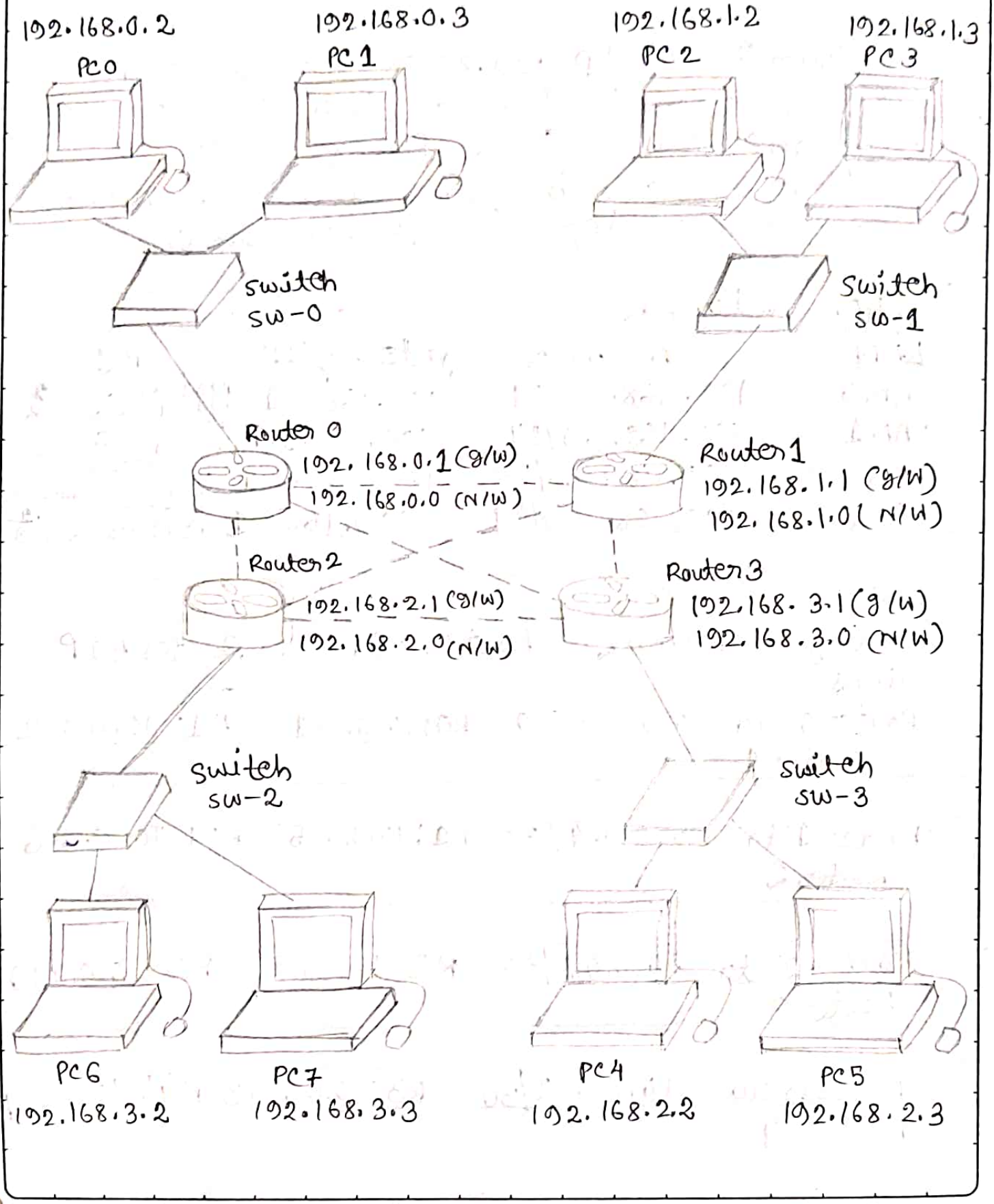
⇒ LAN Network

LAN	Network	gateway IP	PC
LAN0	192.168.0.0/24	192.168.0.1	PC0: 192.168.0.2 PC1: 192.168.0.3
LAN1	192.168.1.0/24	192.168.1.1	PC2: 192.168.1.2 PC3: 192.168.1.3
LAN2	192.168.2.0/24	192.168.2.1	PC4: 192.168.2.2 PC5: 192.168.2.3
LAN3	192.168.3.0/24	192.168.3.1	PC6: 192.168.3.2 PC7: 192.168.3.3

Router

Routing links	Network	Router AIP	Router BIP
Router 0 to Router 1	10.0.0.0/30	R0: 10.0.0.1	R1: 10.0.0.2
Router 1 to Router 2	10.0.0.4/30	R1: 10.0.0.5	R2: 10.0.0.6
Router 2 to Router 3	10.0.0.8/30	R2: 10.0.0.9	R3: 10.0.0.10
Router 3 to Router 4	10.0.0.12/30	R3: 10.0.0.13	R4: 10.0.0.14

Teacher's Signature: _____


192.168.0.2
PC0
192.168.0.3
PC1
192.168.1.2
PC2
192.168.1.3
PC3
switch
sw-0
switch
sw-1
Router 0
192.168.0.1 (g/w)
192.168.0.0 (N/w)
Router 1
192.168.1.1 (g/w)
192.168.1.0 (N/w)
Router 2
192.168.2.1 (g/w)
192.168.2.0 (N/w)
Router 3
192.168.3.1 (g/w)
192.168.3.0 (N/w)
switch
sw-2
switch
sw-3
PC6
192.168.3.2
PC7
192.168.3.3
PC4
192.168.2.2
PC5
192.168.2.3

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Q1) Implement the Routing Information Protocol (RIP) which is a Distance vector Routing Protocol (Using Cisco Packet tracer)

Ans)

Network 1		IP address
Router 0		88.6.0.1 (gateway)
		88.6.0.0 (network)
Switch 0 (SW-0)	PC 0	88.6.0.2
	PC 1	88.6.0.6
Network 2		Ip addresses
Router 1		169.69.0.1 (gateway)
		169.69.0.0 (network)
Switch 1 (SW-1)	PC 2	169.69.0.9
	PC 3	169.69.0.4

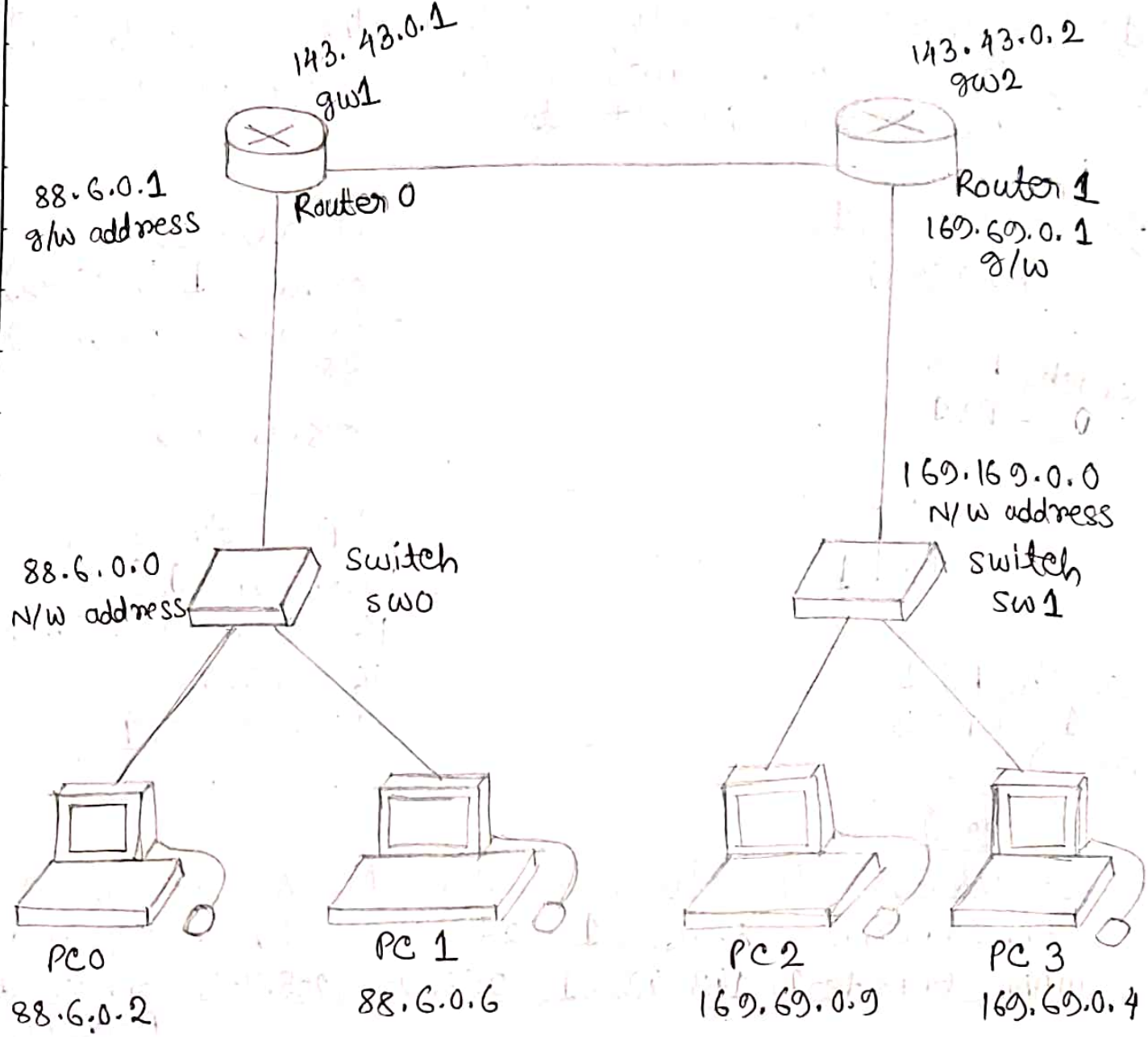
Router 0

Interface	Ip address	Subnet Mask	Description
LAN (to sw0)	88.6.0.1	255.255.255.0	Gateway for PC 0,1
WAN (to Router1)	143.43.0.1	255.255.255.252	Connected to Router 0

Router 1

Interface	IPaddress	Subnet Mask	Description
LAN (to sw1)	169.69.0.1	255.252.255.0	gateway PC2,3
WAN (to Router0)	143.43.0.2	255.256.252.252	Connected to Router 0

Teacher's Signature:


143.43.0.1
gw1
143.43.0.2
gw2
88.6.0.1
s/w address
Router 0
Router 1
169.69.0.1
s/w
169.169.0.0
N/w address
88.6.0.0
N/w address
Switch
sw0
Switch
sw1
PC0
88.6.0.2
PC 1
88.6.0.6
PC 2
169.69.0.9
PC 3
169.69.0.4

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PCS	IP address	subnetaddress	Default Gateway
PC0	88.6.0.2	255.255.255.0	88.6.0.1
PC1	88.6.0.6	255.255.255.0	88.6.0.1
PC2	169.69.0.9	255.255.255.0	169.69.0.1
PC3	169.69.0.4	255.255.255.0	169.169.0.1

8.

Teacher's Signature: