

Exp. No. 9

Date:

Classful Subnetting.

Aim:

Implementation of subnetting  
in Cisco packet tracer

Procedure:

(1) Create the network using switch, router and PC's.

(2) The IP is as follows.

→ R1:

Gigabit ethernet 0/0 : 192.168.1.1

Gigabit ethernet 0/1 : 192.168.2.1

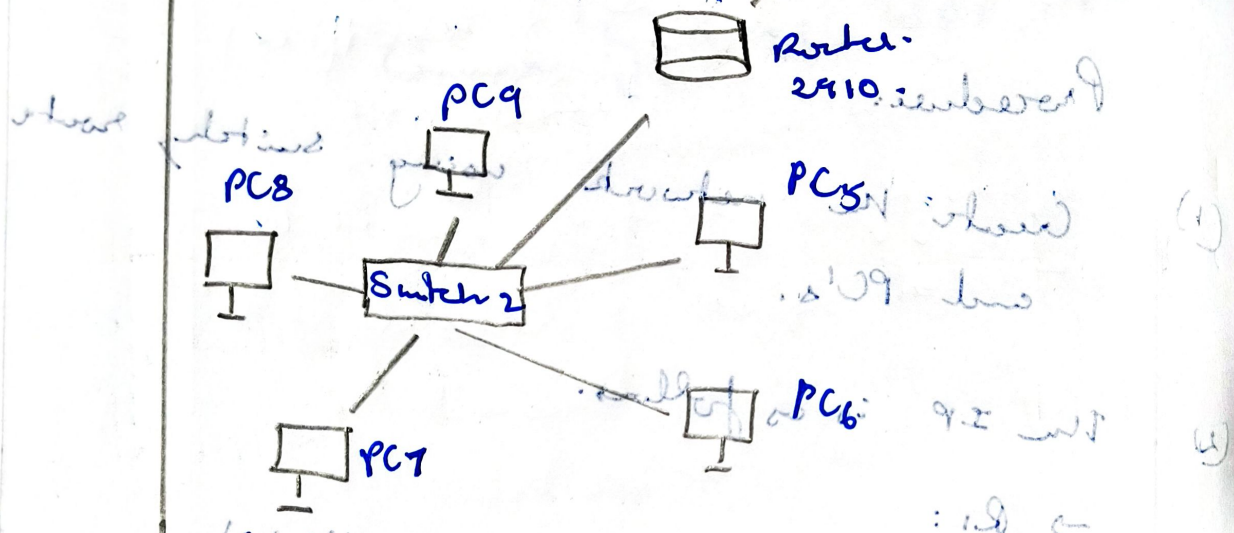
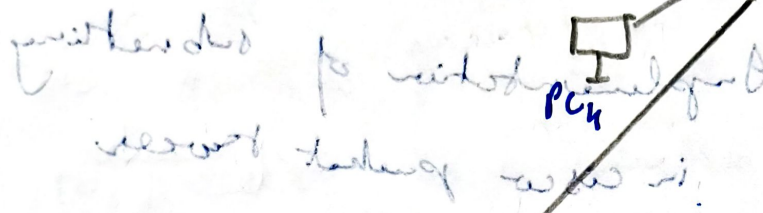
likewise assign the IP's for all  
the PC's.

but not the switch.

(3) Gateway of switch S1 : 192.168.1.1  
i.e. Gigabit ethernet 0/0

(4) Gateway of switch S2 : 192.168.2.1  
i.e. Gigabit ethernet 0/1

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1.1.2015: o/o Laxmi Hiding  
1.2.2015: o/o Laxmi Hiding  
**Output:**  
all of 9 I ; Reviewer: PC7  
Sender: PC1  
- please consider

Simulation:

Time	Device
0-006	PCI
0-008	Switch S1
0-009	Router R1
0-010	Switch S2
⋮	⋮

Test Status:  
Successful

Destination

PC 8

Source:

PC 2

Type:

ICMP

Value:

0

Time:

0.000

Periodic

N:

Num:

0

Student Observation

(a) Write down your understanding of  
~~subnetting~~.

→ It is the process of sending  
a large IP address network



and manageable section called  
subnets.

(b)

Ans:

Advantages:

(\*) Efficient IP management based on  
requirement.

(\*) Reduce network configuration limit  
broadcast traffic to individual  
subnets.

Results

~~This subnetting is done successfully  
and verified.~~