EX: 09   Implementation of
Date: 21/9/24   Subnetting in
                    cisco Packet tracer.

Aim:

        Implementation of subnetting
in cisco packet tracer simulator.

Procedure:
    1. create the network using
router, switches & PCs
    2. configure IP address on
PCS as follow:
    Router R1:
        gigabit 0/0: 192.168.1.1
        gigabit 0/1: 192.168.2.1

[Enable 'on' option for both gigabit
etherned].

Switch S1:
    Fast Ethernet 0/1: 192.168.1.0
    PC0: 192.168.1.11
    PC1: 192.168.1.12
    PC2: 192.168.1.13
    PC3: 192.168.1.14
    PC4: 192.168.1.15

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Left page (partially visible):

Implementation of
Subnetting in
cisco Packet tracer.

...tion of subnetting
...traces simulator.

the network using
& PCS
IP address on

0 : 192.168.1.1
1 : 192.168.2.1

for both gigabit

: 192.168.1.0
1.11
1.12
1.13
1.14
1.15

Right page:

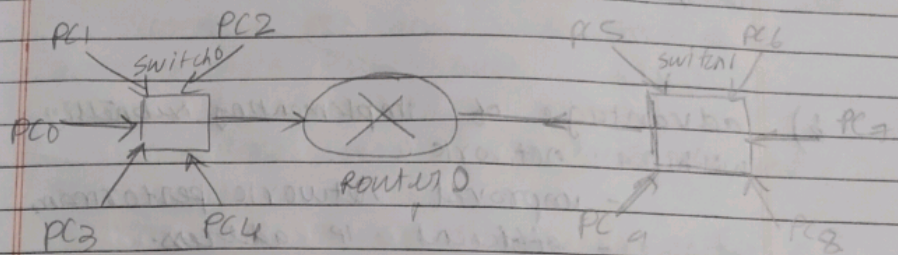Fast Ethernet 0/2 : 192.168.2.0
   PC5 : 192.168.2.11
   PC6 : 192.168.2.12
   PC7 : 192.168.2.13
   PC8 : 192.168.2.14
   PC9 : 192.168.2.15

Diagrammatic Representation :

Let us assume PC0 is sender and
PC7 is receiver.

output :

Fire	last status	Src	DST	Type	Time	Periodic	Num
0	successful	PC0	PC7	ICMP	0.000	N	0

Student observation:

a) write down your understanding of subnetting
   - subnetting is the process of dividing a large network into smaller network called as `subnets`.
   - subnets is like smaller group within large network.

b) advantage of implementing subnetting within network:
   - improved network performance
   - efficient IP address utilization.
   - Enhanced security.
   - simplified network management
   - Reduced collision domains.

Result:
   Implementation of subnetting is successfully implemented & the dp is verified.

10 a)
Date: 25/9/2

Aim:
   To im
routers in

Procedure:
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   2. co
   3.
PC1 as ne

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Diagramma

Simulati