EXP NO: 9 Implementation of Subnetting in asco Packet Traces

Implementation of subnetting in cisco Aim: packets traces simulater.

Rocedule:

r cleate the network using gouters, surtche

2. configure 12 addless on PCS as follows and PCS

Routes , RI:

Gigabit 0/0: 192.168.1.1

Gigabit : 0/1: 192.168-2.1

[Enable 'on' option por both gigabit ethernet]

3. switch Si:

Fast Ethernet 01: 192.168.1.0

PCO: 192.168.1.11

PCI : 192. 168.1.12

PC2:192. 168.1.13

PC3: 192. 168. 1.14

PC4: 192.168.1.15

Fast Ethernet 0/2:192-168-2-0

Prs: 192.168.2.11

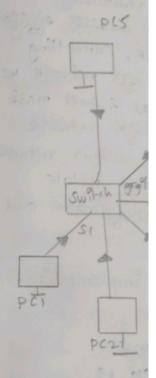
PC6: 192.168.2.12

PC7: 192168. 2-13

PC8: 192. 168. 2.14

pcq: 192. 118. 2. 15

Diagramatic Re



output:

Fixe	Last Status			
0	Successful			

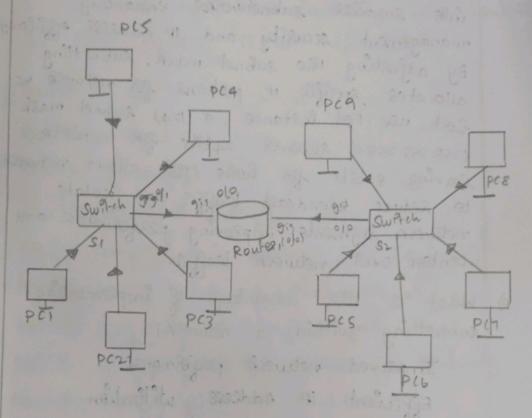
Subnetting
TRaces

en cisco

Routers, surtches

abit ethernet

Diagramatic Representation



output:

Fixe	LOST Status	Source	Deshna -Hon	Type	Time	Per odic	Num
	Successful			No.	0.000		0

student observation: a) Write down your understanding of subnetting Subnetting divides a large network into smaller subnetworks, enhancing management, security and IP address efficiency. By adjusting the subnet mask, subnetting allocates sperific it portions por network vs host use. For instance, a (124) subnet mask (255.255.255.0) Resaves 24 bits for network, leaving 8 bits por hosts. This allows network to reduce broadcast teappre and isolate network segments, improving performance and control over network teappie.

b) What is the advantage of implementing subnetting within a network?

Improved network performance Efficient IP Addless utilization Enhanced Security simplified network management Reduced collision domains.

Catput:

observed and the output is verified.

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EXP NO :10

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> Impleme in cisco P

Router 1 - cel

Routes > en

Routes # ce

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