DATE: 08-10-24

AIM:

Implementation of subnetting in (1500 Packet tracer simulator.

## PROCEDURE:

- (seate the network using smitches, router & PC's.
- ii) The IP address will be as fallows
  - -> Router & R,
    - \* Ougabit Ethernet 0/0: 192.168.1.1
    - \* Orgabit Etheret 0/1: 192.168.2.1
  - -> Switch SI
    - # Wa IP
  - -> LAN 1
    - \* PCO IP address : 192.168.1.11
      - Gateray : 192.168.1.1
    - \* PC1 IP address: 192.168.1.12
      - Gatway : 192.168.1.1
    - \* P(2 IP: 192. 168.1.13
      - bate way: 192.168.1.,
    - \* PC3 IP: 192.168.1.14
      - Catavay: 192 168 1-1
  - \* PC4- IP: 192.168.1.15
    - Crataway: 192. 168.1 1

- Switch S2 \* No IP

-> LAN-2

\* PC 5 - IP: 192.168.2.11

Ocaleway: 192.168.2.1 67

\* PC6 - IP: 192.168.2.12

Crateray: 192.168.2.4

\* PC7 - IP: 192.168.2.13

Grateway: 192.168.2.1

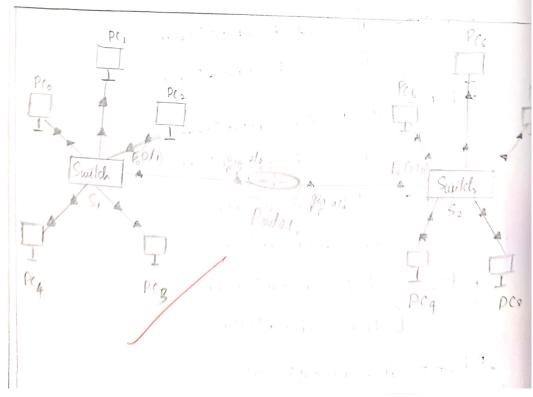
\* PC8 - IP: 198 · 168 · 2 · 14

Gateway: 192 168.2.1

\* PC9-IP: 192.168.2.15

Oateway: 192.168.2.1

## Diagramatic Ryvresantation:



## OUTPUT:

Now let's assume the sender in P(, a recience is P(7) while simulating 4 absorbing, we get the simulation paid

Simulation	Panel	Б×			
Ensut his	-				
VIS -	time	Lastdenica			
	0.000				
5 09 · 0		PC, Switch,			
0.010		Switch 2			
0	. 013	PC q			
0.015		Switch 2 Router 1			
0.018					
0.020		Switchi			
0.023		- w			
Reset Simulal	ā I	constant delay			
Play Controls					
V	1;	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			

Fire	Last Status	Source	Destiration	Type	Color	Time (sec)	Pariodic	Num
	Successful					0.006	Ν	0

Student Observation:

- a) Subretting is the process of cliniding a large 10 network & managable section called subrets. Each subret acts as independent network.
- b) Advantages:
  - Efficient IP management based on Inquiroment.
  - -> Reduce Network congestion limit broadcast tooffice to individual subnets.

RESULT:

The implementation of subnetting in CISCO has been done successfully.