

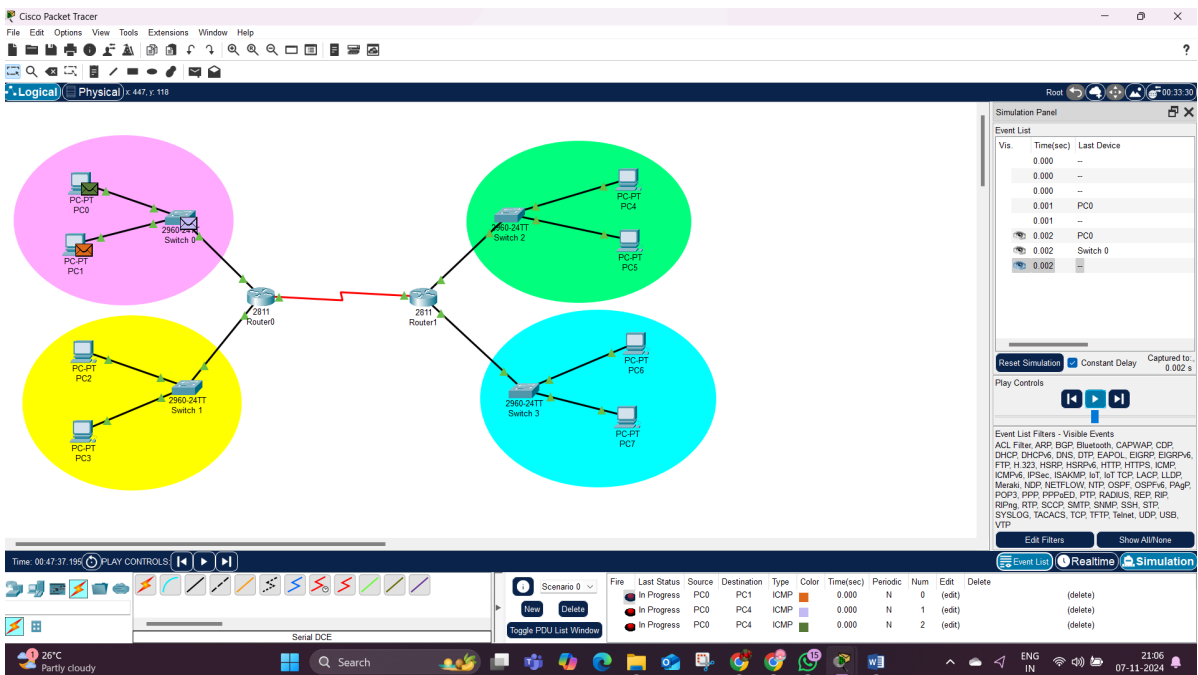
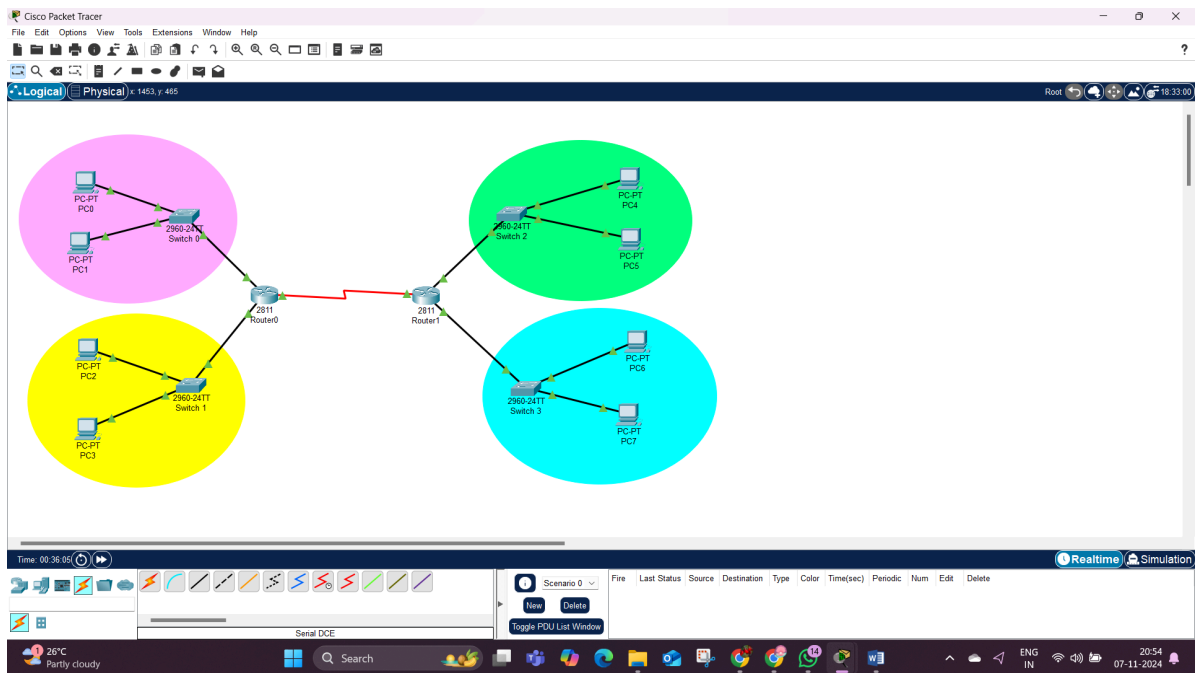
EXPERIMENT – 9

AIM: - Implementation of SUBNETTING in CISCO PACKET TRACER simulator.

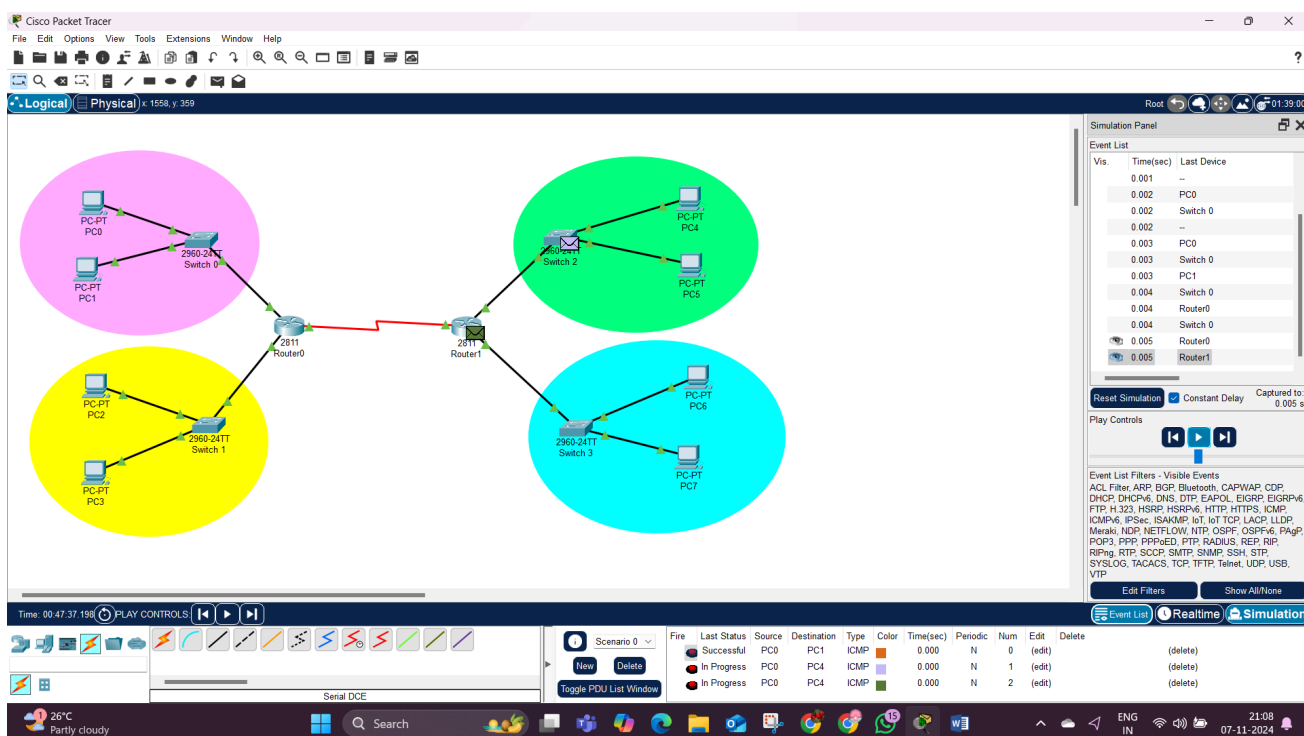
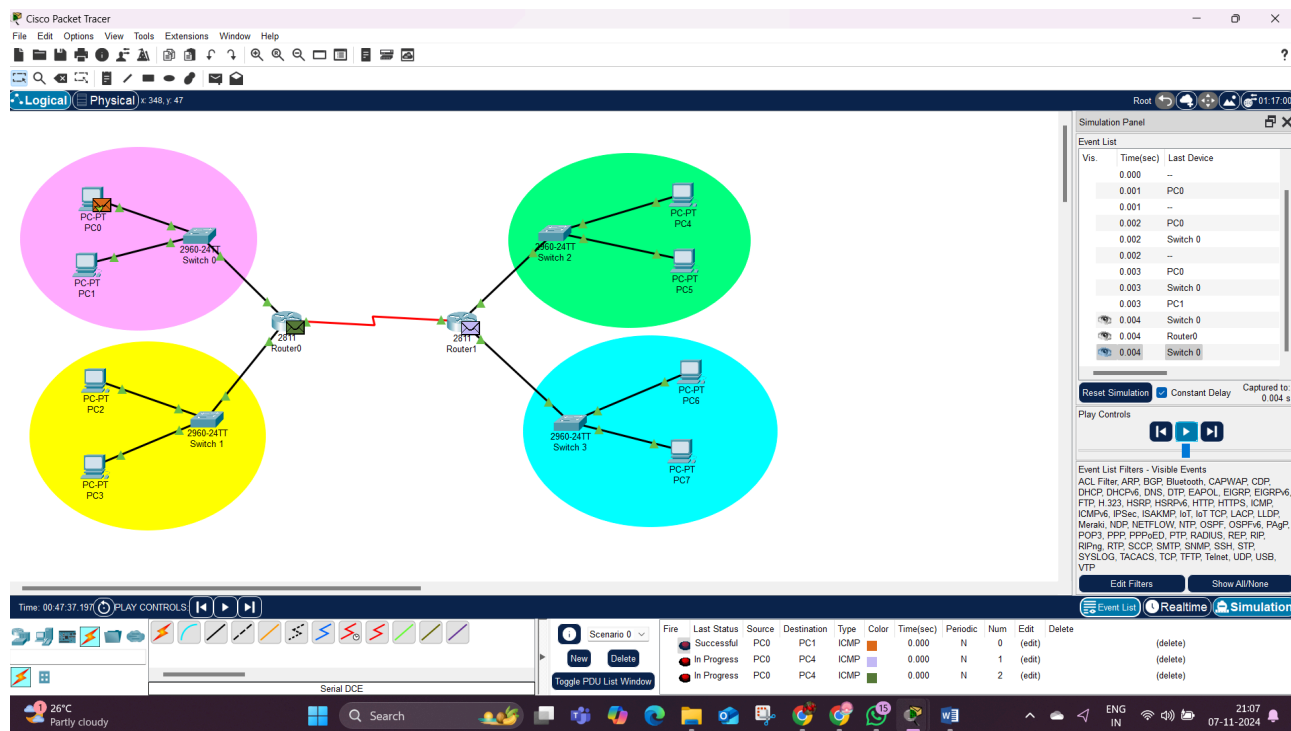
What is subnetting?

Classless IP subnetting is a technique that allows for more efficient use of IP addresses by allowing for subnet masks that are not just the default masks for each IP class. This means that we can divide our IP address space into smaller subnets, which can be useful when we have a limited number of IP addresses but need to create multiple networks.

OUTPUT: -



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC1	ICMP		0.000	N	0	(edit)	(delete)
	Failed	PC0	PC4	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC0	PC4	ICMP		0.000	N	2	(edit)	(delete)



Router0

Physical

Config

CLI

Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/3/0

Static Routes

Network

Mask

Next Hop

Add

Network Address

192.168.2.128/26 via 192.168.2.226

192.168.2.192/27 via 192.168.2.226

Remove

Equivalent IOS Commands

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up

Router(config-if)#

Router(config-if)#exit

Router(config)#

Router(config)#ip route 192.168.2.128 255.255.255.192 192.168.2.226

Router(config)#ip route 192.168.2.192 255.255.255.224 192.168.2.226

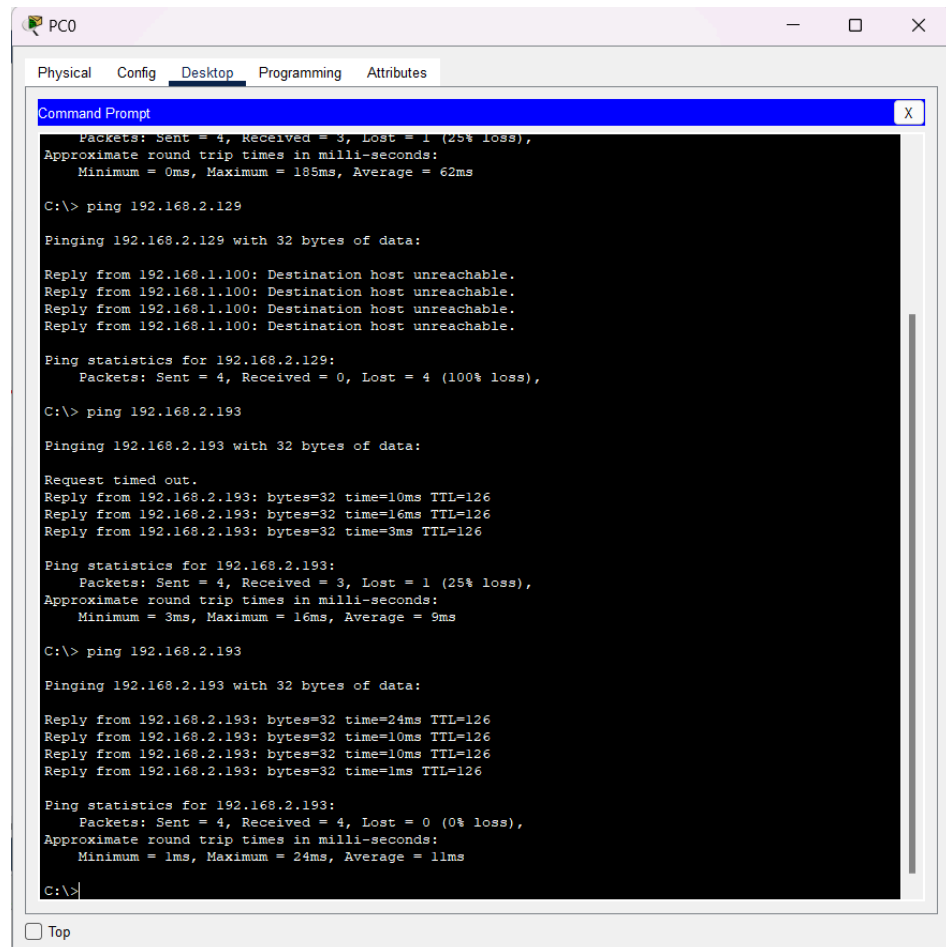
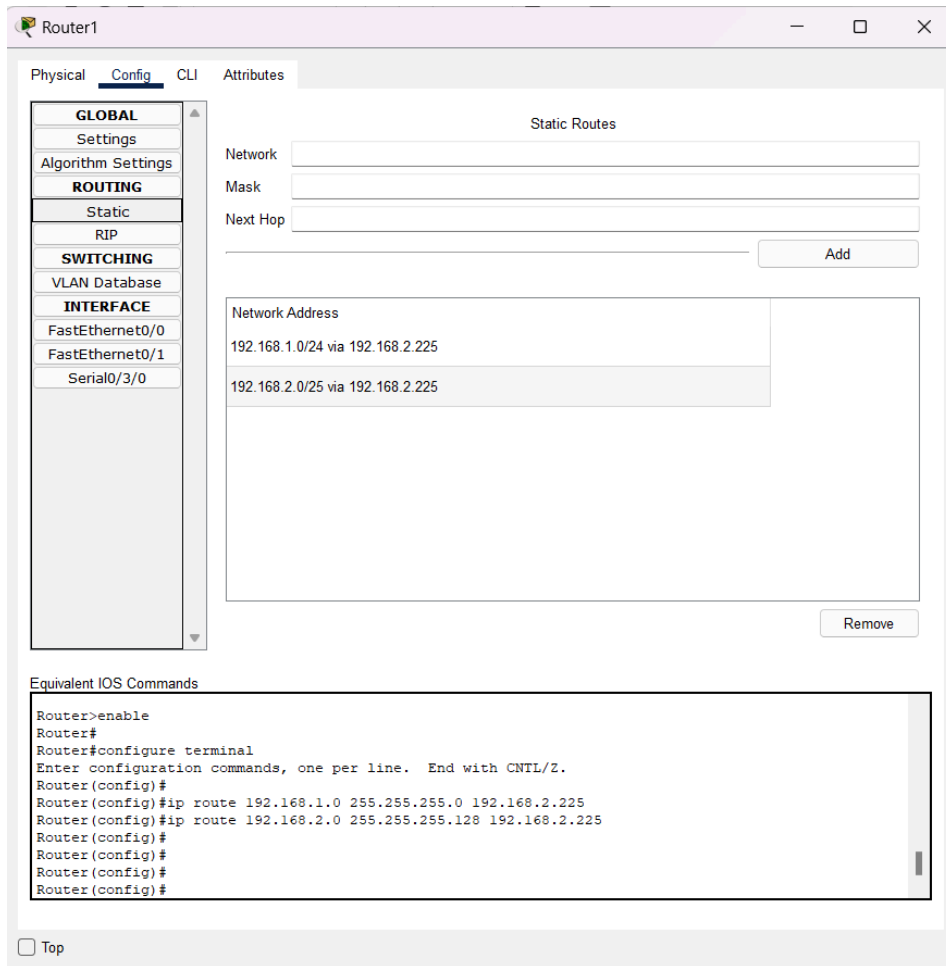
Router(config)#

Router(config)#

Router(config)#

Router(config)#

☐ Top



RESULT: -

Implementation of SUBNETTING in CISCO PACKET TRACER simulator have been done successfully