

Ex: no: 9

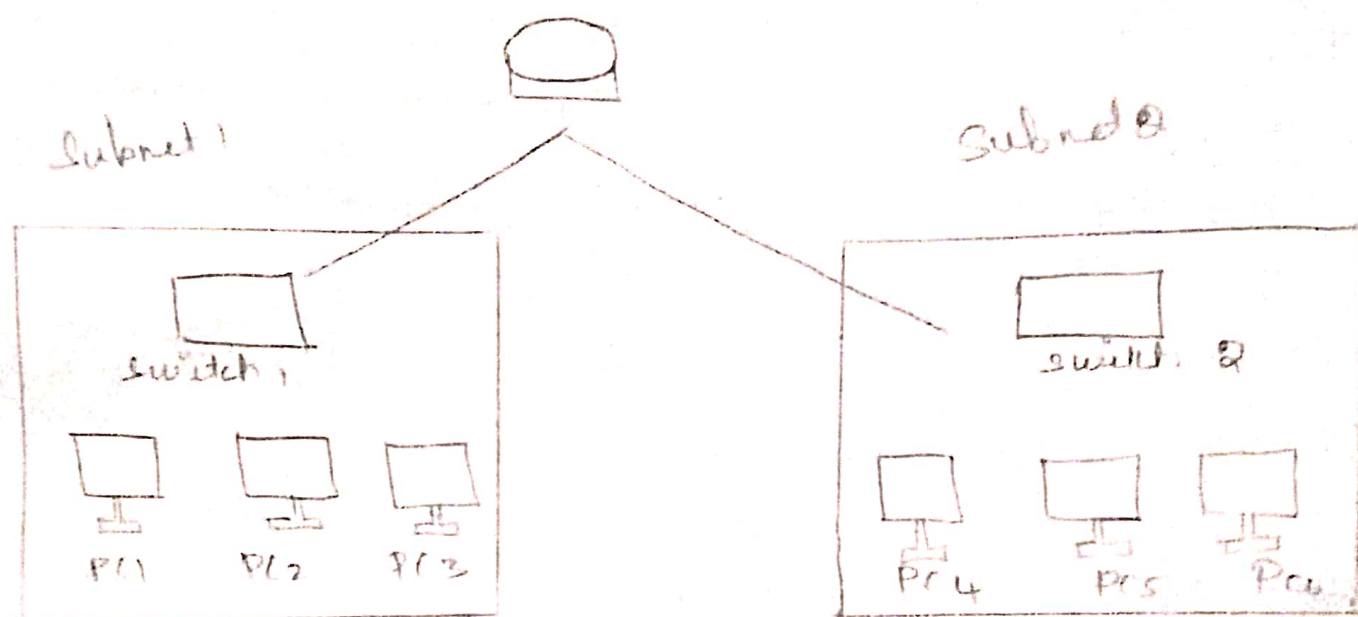
Date: 10.10.24

## Subnetting in CISCO Packet tracer.

Aim:

Implementation of subnetting in CISCO packet tracer simulator.

a.) Draw your implementation of subnetting.



b.) write down your understanding of 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 limited no. of IP addresses but need to create multiple networks.

c.) What is the advantage of implementation within a network?

Subnetting is useful when we have a limited number of IP address but need to create multiple networks. This also enhance security.

Result :

Thus, subnetting has been implemented in cisco packet tracer and the o/p is verified.