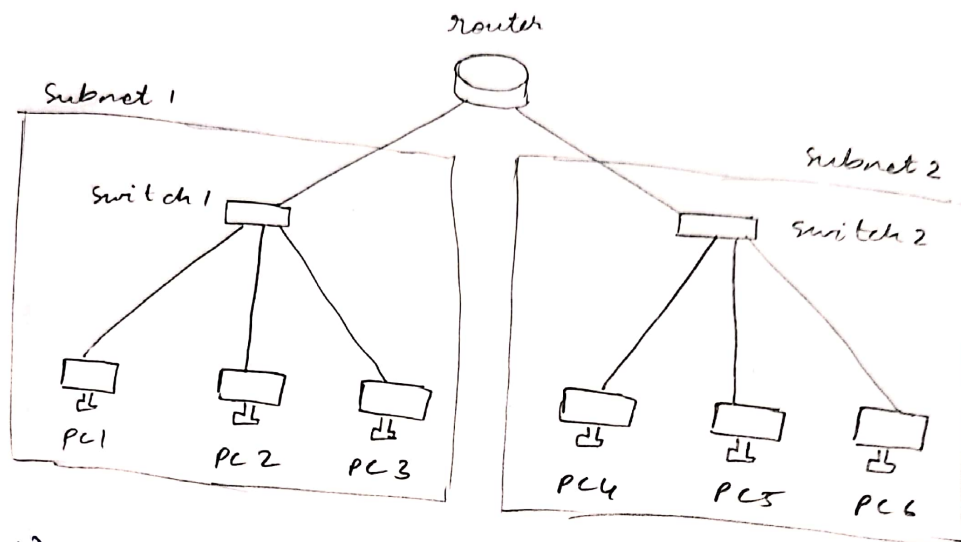**AIM:-** Implementation of SUBNETTING in cisco Packet Tracer Simulator.

Student Observation Questions

a) Draw your implementation of subnetting.

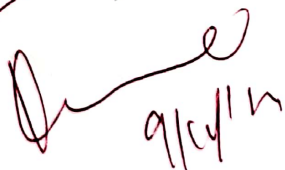b) Write down your understanding of subnetting.

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 one IP address space into smaller subnets, which can be useful when we have a limited number of IP addresses but need be create multiple networks.

c) what is the advantage of implementing within a network?

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

Result

Thus, subnetting has been implemented in cisco packet tracer and the output is verified.