# GHARDA FOUNDATION

# GHARDA INSTITUTE OF TECHNOLOGY, LAVEL

Department of Computer Engineering

## Evaluation Sheet

Class: TE-Computer Engineering                                          Sem: V

Subject: **Computer Networks**

Experiment No: 6

Title of Experiment: Study of Classless IP addressing

Name of Student: Harvande Sanket Chandrashekhar   Roll No:  19

| Sr. No. | Evaluation Criteria | Max Marks | Marks Obtained |
|---------|---------------------|-----------|----------------|
| 1 | Practical Performance | 8 | |
| 2 | Oral | 5 | |
| 3 | Timely Submission | 2 | |
| | Total | 15 | |

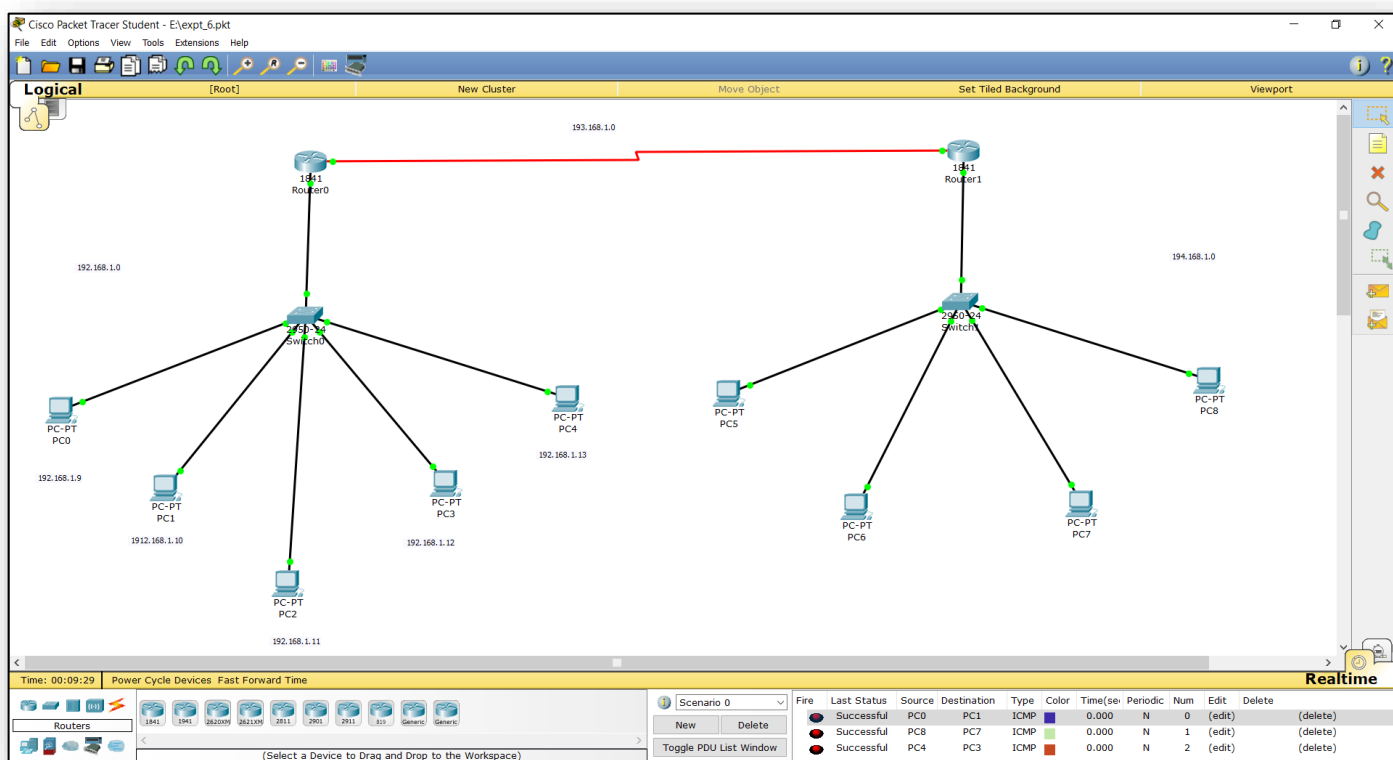Signature of Subject Teacher
(Mr. S. S. Tathare)

**Aim**: To study the implementation of classless IP addressing.

**Apparatus**: Packet Tracer software

**Procedure**:
1. Configure a network using at-least two switches, two routers and 4 PC.
2. Configure IP addresses of all PCs and the router interfaces using proper rules of classless addressing.
3. Ensure that all the connections turn green which indicate the connections as UP.
4. Check for the connectivity using ICMP ping command, the connectivity fails.
5. Configure dynamic routing on both the routers using distance vector routing protocol, RIP.
6. Check for the connectivity using ICMP ping command, the connectivity succeeds.

**Screenshots**:



**Conclusion**: Thus the study of the implementation of classless IP addressing in a network is done using Packet tracer software.