

## NAME-SEIGHA TUKOROA- Mini-Project: Setting Up a Networking Simulation Tool

**Objective-** This project focuses on setting up a networking simulation tool to create and test network devices in a virtual environment. This helps in learning network design, familiarizing oneself with the interface, and performing basic configuration to understand its capabilities.

**Tools for Simulation**-Cisco Packet Tracer – Ideal for beginners, vendor-specific., GNS3 – A powerful multi-vendor network simulation tool.

### Step-by-Step Guide

**Step 1:** Install the Tool, Download Cisco Packet Tracer from Cisco's official website

**Step 2:** Familiarize with the Interface, by click hold and drag the routers, switches, end devices, connections, and other options.

**Step 3:** Create a Simple Network on Packet Tracer

**Step 4:** Configure IP Addresses from the Desktop tab

**Step 5** Test connectivity using Ping Command. Testing connectivity IP 192.168.1.3 type: Check the Response. If the connection is successful, you'll see:

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=10ms TTL=128

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Reply from 192.168.1.3: bytes=32 time=12ms TTL=128

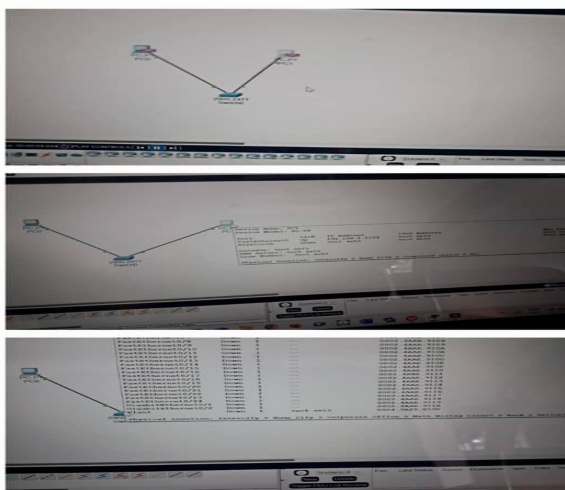
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 12ms, Average = 5ms



C:\>

