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:\>