Routing Table Simulator - Instructions

# 🖥️ Prerequisites

- C++ Compiler (g++) installed  
- Basic understanding of IP networking  
- Linux/Unix terminal or MinGW on Windows

# 📦 Files

- routing\_simulator.cpp  
- sample\_routes.csv  
- routing\_features.docx

# ⚙️ Compilation (Linux/macOS)

g++ routing\_simulator.cpp -o routing\_simulator

# ▶️ Running the Program

./routing\_simulator

# 📘 Usage

1. Load or add routing entries  
2. Enter a destination IP address  
3. Program returns best route using Longest Prefix Match

# 📂 Sample Run

Enter destination IP: 89.2.225.45  
Matched Route: 89.2.225.0/24 via 192.168.0.209 on eth0 (Metric: 7)