🚀 **Replit Classroom Launch Pack for C/C++ Networking Projects**

# 📘 Overview

This document provides a step-by-step guide for trainers and students to run C/C++ networking projects using Replit (https://replit.com). This method does not require any software installation, VM access, or local configuration.

# 👨‍🏫 Trainer Instructions

1. Go to https://replit.com  
2. Log in or create a free account  
3. Click 'Create' → Choose 'C++' as the language  
4. Name your Replit project (e.g., 'routing-table-simulator')  
5. Paste the relevant C++ code into `main.cpp`  
6. (Optional) Add comments or sample IP addresses  
7. Click 'Share' → Copy project link  
8. Share this link with your students

# 👨‍🎓 Student Instructions

1. Open the link shared by your trainer  
2. Click 'Fork Replit' (if logged in) to make your own editable copy  
3. Click 'Run' to compile and execute the C++ code  
4. Enter input (e.g., destination IP) when prompted  
5. View the output in the console

# 🧩 Sample Projects

|  |  |
| --- | --- |
| Use Case | Suggested Replit Project Name |
| Routing Table Simulator | routing-table-simulator |
| TCP Client-Server Chat | tcp-chat |
| DNS Query Tool | dns-query-tool |
| Simple HTTP Client | http-client |
| VLAN Config Parser | vlan-config-parser |

# ✅ Tips for Success

- Students can use Replit without downloading anything  
- Free Replit plan is sufficient for all listed use cases  
- Replit supports real-time collaboration and comments  
- Trainer can monitor or debug by reviewing student links

# 📎 Note

All code should avoid file I/O unless using Replit’s Files tab. Try to keep input/output through the terminal for simplicity.