This project involves designing and configuring a small business network in Cisco Packet Tracer. The setup includes a router, a switch, and multiple PCs, with an additional PC to test security features. Key tasks completed include:

* Network Topology Design: Built a functional network layout connecting a router, switch, and end devices.
* Manual IP Configuration: Assigned static IP addresses to PCs and confirmed connectivity with ping commands.
* DHCP Configuration: Set up the router as a DHCP server to dynamically assign IP addresses, simplifying network management.
* Firewall Security: Implemented an access control list (ACL) to block unauthorized external traffic, strengthening network security.

This project showcases foundational networking skills like IP addressing, DHCP management, and basic security practices, making it a strong addition to a portfolio for IT or networking roles.