Branch/Semester	Bsc (IT Cloud & Application Development) / II
Subject Name:	Routing & Switching Technology
Subject Code:	05CA0201
Assignment:	Assignment No. 3 (Computers Networks)
Due Date:	16/02/2025
Faculty Name:	Prof. Rishabh Singh

1.	**Basic LAN Configuration in Packet Tracer**
	• Create a simple LAN using Packet Tracer and connect multiple PCs using a switch.
	• Assign static IP addresses to devices in a LAN and verify connectivity using the ping command.
	• Configure and test a DHCP server to assign IP addresses dynamically.
2.	**Router Configuration and IPv4 Addressing**
	• Configure a Cisco router with basic settings such as hostname, passwords, and interfaces.
	• Implement static routing between two or more networks and verify connectivity.
	• Configure dynamic routing protocols (RIP, OSPF, EIGRP) and test network connectivity.
	• Assign IP addresses using CIDR and VLSM and demonstrate efficient subnetting.

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