

Dire Dawa University Institute of technology

School of Computing

Department of Computer Science

Data communication and computer network Project

Suppose you are network administrator of one organization and the organization has four office locations. The organization needs a robust and scalable network infrastructure to support its growing operations. As the newly network Admin, you are requested with designing and configuring a network that can interconnect the company's offices, facilitates reliable data transfer, and ensures access to centralized enterprise applications and services.

The requirements are as follows:

- A. Design network topology
- B. Assign Network Address for each Location (VLAN and Subnet-ID)
- C. Configuring the network using packet tracer.
- D. Use at least one router and two Networks;
- E. Use only one DHCP server which provide IP Address to all client computers.

Note:- You can use the following IP address for sub-netting.

- **Network 1: 192.168.60.0/24**
- **Network 2: 192.168.70.0/24**
- **Network 3: 192.168.80.0/24**
- **Network 4: 192.168.90.0/24**

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