**Experiment 5**

**Date:** 24-08-2021

**Aim:** To set the password for the switch network and check its authentication using telnet command.

**Software Used:** Cisco Packet Tracer.

**Theory:** The Cisco Catalyst 2960 switch comes preconfigured and just should be alloted fundamental security data before being associated with a system. To utilize an IP-based administration item or Telnet with a Cisco switch, you should design an administration IP address.

**Steps to Configure Cisco Switch Using CLI:**

**Step 1:** Use an external emulator such as Telnet or a PuTTY to login to the switch.

* Initial command prompt **"Switch>"** appears on the screen.
* Type **"enable"** next to it and press "Enter".
* This will take you into the **"EXEC"** mode, also known as the Global Configuration mode.
* Go into configure mode using configure terminal.
* Enter the configuration commands one per line.

**Switch# configure terminal**

**Switch(config)#**

**Step 2:** Provide a hostname for the switch to function in a particular network environment

**Switch(config)#hostname switch**

**Switch(config)#**

**Step 3:** Configure an administration password (enable secret password)

**Switch(config)#enable secret somestrongpass**

Note: This password will have to be given before entering into config mode, once it is configured.

**Step 4:** Configure default gateway

**Switch(config)# ip default-gateway IP-address**

**Switch# show ip route**

**Step 5:** Configure static route

**Switch(config)# ip route dest\_IP\_address mask**

**Switch# show running-config**

**Step 6:** Configure interface description

**Switch(config)#interface fastethernet 0/1**

**Switch(config-if)#description Development VLAN**

**Switch(config-if)#exit**

**Switch(config)#**

**Step 10:** Exit config mode

**Switch(config)#exit**

**Switch#**

**Observations:**

1. **Configuration of Switch and Adding Banner Message to it:**

Graphical user interface, text, application

Description automatically generated

1. **Checking the Authentication of the Switch using TELNET command:**

Graphical user interface, application

Description automatically generated

**Results:** Setting of password for the switch network and check its authentication using telnet command.