

# Computer Networking: Security

(CSE 3752)

## Experiment 1

### **Aim:**

Implementation of user authentication technique for remote access of the network device in computer network using cisco packet tracer.

### **Objectives:**

1. An overview on user authentication technique used in secured system.
2. Configuration and verification of remote user authentication on a Cisco router and switch using local username-password authentication.
3. Configuration and verification of remote user authentication on a Cisco router and switch using local username-password authentication using SSH.

### **Exercises:**

1. State the importance of user authentication in a secured system.
2. What will be the command for the following tasks?
  - a) to create a local user account with the username "CNSLab" and the password "cisco".
  - b) to set the privilege level for the local user account to 15.
  - c) to create an encrypted password.
3. Explain the features of SSH protocol.
4. Compare and contrast SSH and Telnet.