# Computer Networking: Security (CSE 3752)

## **Experiment 2**

#### Aim:

Implementation of AAA server as user authentication and authorization technique for remote access to the network device in computer network using cisco packet tracer.

### **Objectives:**

- 1. An overview on AAA (Authentication, Authorization and Accounting) used in secured system.
- 2. Configuration and verification of remote user authentication on a Cisco router using AAA server based username-password authentication.
- 3. Configuration and verification of remote user authentication on a Cisco router using AAA server based username-password authentication with SSH.

#### **Exercises:**

1. An AAA configuration given as following. Which login credentials are required when connecting to the console port in this configuration?

aaa authentication login NO\_AUTH none line console 0 login authentication NO\_AUTH

- 2. State the advantages and disadvantages of AAA server based user authentication process.
- 3. Compare and contrast **RADIUS** (Remote Authentication Dial In User Service) and **TACACS+** (Terminal Access Controller Access-Control System) protocol.
- 4. State the significance of the following command in AAA server configuration:
  - "AAA authentication login default group TACACS+ local"
- 5. How does SSH works here to protect the message?