

Computer Networking: Security

(CSE 3752)

Experiment 4

Aim:

Implementation of symmetric cryptographic process for secured communication of information in computer networking.

Objectives:

1. An overview on Playfair and Vignere cryptographic algorithm.
2. Execution of Playfair algorithm for encryption and decryption of text message.
3. Execution of Vignere algorithm for encryption and decryption of text message.

Exercises:

1. Encrypt "ALL IS WELL" using Vignere cipher with the keyword "CAKE".
2. Decrypt "DCTXSWVVVAMZ" using Vignere cipher with the keyword "BEST".
3. Encrypt "INSTRUMENTS" using Playfair ciphering with keyword "MONARCHY" assuming the letters I & j share the same cell in key matrix.
4. Decrypt "HBTIDBHKMO" using Playfair ciphering with keyword "DIAMOND" assuming the letters I & j share the same cell in key matrix.