Lab sheet for CSIT 5th Semester

Cryptography

Lab# 1

1. Write a program that takes an integer value K (i.e. shift value between +/- 26) and a plaintext message and returns the corresponding Ceasar cipher. The program should also implement a decryption routine that reconstructs the original plaintext from the ciphertext.
2. Write a program that asks user for key and plain text and displays the corresponding Vigenere cipher.
3. Using the Rail Fence algorithm with depth 3, write a program to encrypt the message "I love my college".
4. Write a program to demonstrate the calculation of initial permutation of a plain text in DES algorithm.

Format for the Report

1. Title
2. Algorithm
3. Source Code
4. Sample Output / Screenshot