

**Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat**  
**Department of Computer Science and Engineering**  
**B.Tech III (Semester VI)**  
**Information Security and Cryptography- CS302**

**Lab Assignment 3**

- 1) Write a program to implement the Rail Fence Cipher to perform encryption and decryption. Take plain text from the user and generate an encrypted text using the Rail Fence Cipher (Consider depth = 2 and depth = 3).
- 2) Implement a program to perform encryption and decryption using a Permutation Cipher with a block size up to 10 characters. Also show how to compute the reverse permutation to decrypt the cipher text and get the plain text.
- 3) Implement a Columnar Transposition Cipher (5x5) with column ordering, to perform both encryption and decryption processes.