

**Groups Evaluations** 

Think-Pair-Share

Informal Groups

Self-assessment

Pause for reflection

Large Group Discussion

Writing (Minute Paper)

Simple

Peer Review

Triad Groups





NETWORK PROTOCOLS & SECURITY 23EC2210 R/A/E

**Topic:** 

**Transposition Techniques** 

Session – 36

# **Transposition Ciphers**

#### Rail Fence Technique

★ The plaintext is written down as a sequence of diagonals and then read off as a sequence of rows.

#### Rail Fence Technique

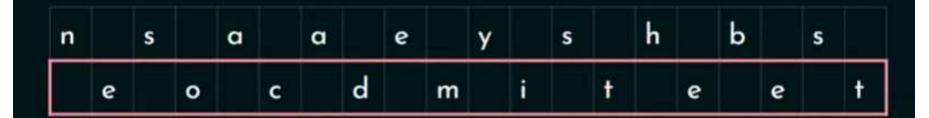
Plaintext : neso academy is the best.

Depth: 2

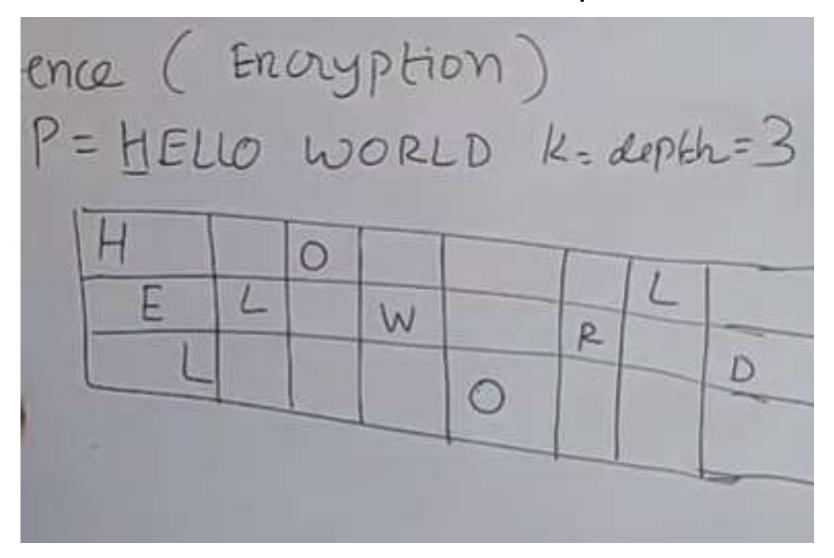


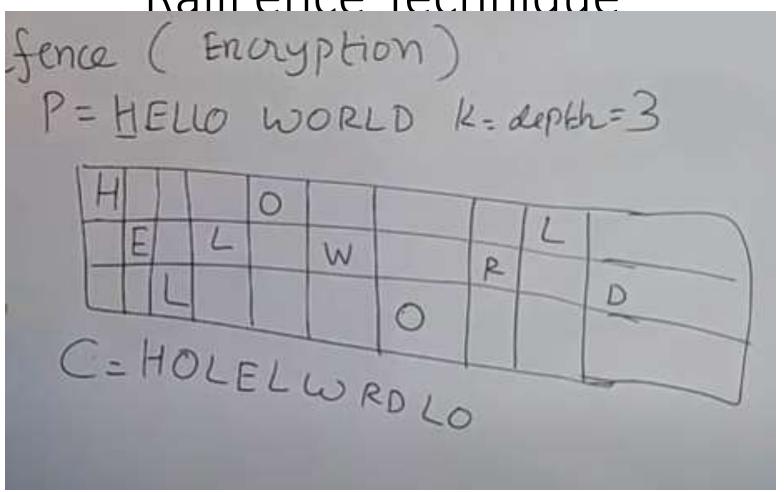
Plaintext : neso academy is the best.

Depth: 2

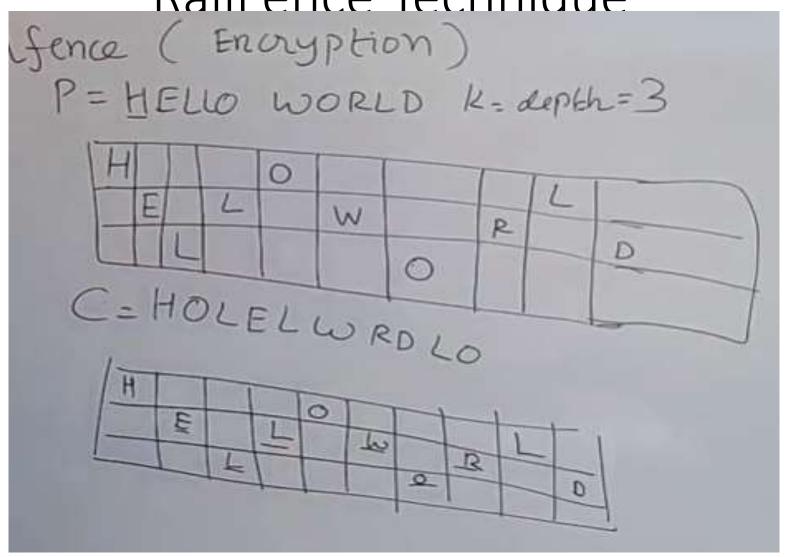


Ciphertext: NSAAEYSHBS









### Rail fence Cipher

Plaintext: "defendtheeastwall"

Rails / Key: 2

D	00	F		N		Т		Ε		Α	0. 0	T		Α		L
	Е	Š.	Е		D		Н		Е		S		W		L	

• Ciphertext: DFNTEATALEEDHESWL

• Key: 3

D				Ν				E				Т				_		
	Ε		Ε		D		Н		Ε		S		W		L		Х	
		F				Т			-	Α	3		3	Α				X

• Ciphertext: DNETLEEDHESWLXFTAAX

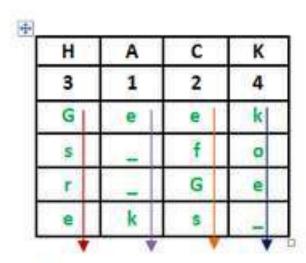
## Columnar Encryption Technique

#### Encryption

Given text = Geeks for Geeks

Keyword = HACK Length of Keyword = 4 (no of rows)

Order of Alphabets in HACK = 3124



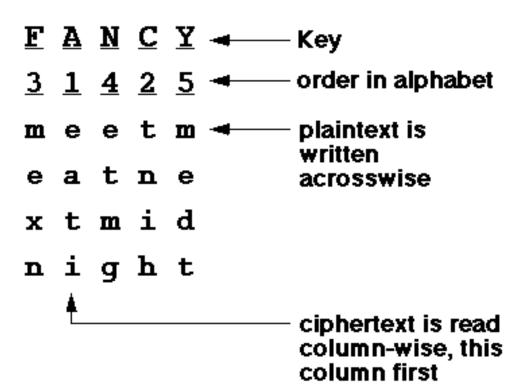
Print Characters of column 1,2,3,4

Encrypted Text = e kefGsGsrekoe\_

# Columnar Cipher

- Message: meetmeatnextmidnight
- Key: FANCY

• Ciphertext: eatitnihmexnetmgmedt



• Ciphertext: DNETLEEDHESWLXFTAAX

• Key : 3