EXP NO:3 DATE:

RAIL FENCE CIPHER

Aim: To implement an encryption algorithm using Rail Fence Cipher technique.

Algorithm:

- Step 1: Declare msg and key, initializing msg with the original message, and set key to the desired rail fence key.
- Step 2: Create railMatrix with dimensions [key][msgLen], initializing elements with newline characters.
- Step 3: Iterate through msg, placing characters in railMatrix based on the Rail Fence Cipher pattern, updating row and col.
- Step 4:Print the encrypted message by traversing railMatrix, excluding newline characters.
- Step 5:Return 0 for successful execution and program termination.

Program:

```
\label{eq:printf} $$ printf("\nEncrypted Message: "); $$ for (i=0; i < key; ++i) & for (j=0; j < msgLen; ++j) & if (railMatrix[i][j] != "\n") & printf("%c", railMatrix[i][j]); $$ int main() { char msg[] = "This is Thrisha"; int key = 3; printf("Original Message: %s", msg); encryptMsg(msg, key); return 0; $$ $$ $$ $$
```

Output:

```
Original Message: This is mnkfngnbnfgnikf
Encrypted Message: T mnnihsi nfgbfnkiskngf
```

Result: