

5) To write a python program to implement the rail fence transposition technique.

**PROGRAM:-**

```
def main():  
    print("\n\t\tRAIL FENCE TECHNIQUE")  
    a=input("\n\nEnter the input string: ")  
    l=len(a)  
    c=[]  
    for i in range(0,l,2):c.append(a[i])  
    for i in range(1,l,2):c.append(a[i])  
    cipher_text="".join(c)  
    print("\nCipher text after applying rail fence:")  
    print(cipher_text)  
    d=[""]*l  
    k=l//2 if l%2==0 else(l//2)+1  
    j=0  
    for i in range(k):d[j]=cipher_text[i];j+=2  
    j=1  
    for i in range(k,l):d[j]=cipher_text[i];j+=2  
    decrypted_text="".join(d)  
    print("\nText after decryption:")  
    print(decrypted_text)  
if __name__=="__main__":main()
```

**OUTPUT:-**

## RAIL FENCE TECHNIQUE

Enter the input string: computer science

Cipher text after applying rail fence:

cmue cecoptrsine

Text after decryption:

computer science

=== Code Execution Successful ===