

TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT)

(Accredited by NBA for 3 years, 4th Cycle Accreditation w.e.f. 1st July 2022)

A for 3 years, 4th Cycle Accreditation w.e. Choice Based Credit Grading System (CBCGS) Under TCET Autonomy



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index1.html
                 railfence.py X

■ wp-exp-1.docx

                                  refforrail.py
railfence.py > \( \Omega \) rail_fence_encrypt
       def rail_fence_encrypt(plaintext, depth):
           if depth <= 1:
               return plaintext
           fence = [['' for _ in range(len(plaintext))] for _ in range(depth)]
           row, step = 0, 1
           for char in plaintext:
               fence[row].append(char)
               if row == 0:
                   step = 1
               elif row == depth - 1:
 12
                   step = -1
               row += step
           ciphertext = ''.join([''.join(r) for r in fence])
           return ciphertext
       def rail fence decrypt(ciphertext, depth):
           if depth <= 1:
               return ciphertext
           fence = [['' for _ in range(len(ciphertext))] for _ in range(depth)]
           row, step = 0, 1
           for i in range(len(ciphertext)):
               fence[row][i] = '*'
               if row == 0:
                   step = 1
               elif row == depth - 1:
                   step = -1
               row += step
           index = 0
           for r in range(depth):
               for c in range(len(ciphertext)):
                   if fence[r][c] == '*':
                        fence[r][c] = ciphertext[index]
                        index += 1
```



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