Assignment No 2

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def encrypt transposition(plain text, key):
  cipher text = ["] * key
  for col in range(key):
    pointer = col
     while pointer < len(plain text):
       cipher text[col] += plain text[pointer]
       pointer += key
  return ".join(cipher text)
def decrypt_transposition(cipher_text, key):
  num_cols = len(cipher_text) // key
  num rows = key
  num_shaded_boxes = (num_cols * num_rows) - len(cipher_text)
  plain text = ["] * num_cols
  col, row = 0, 0
  for symbol in cipher text:
     plain text[col] += symbol
     col += 1
     if (col == num cols) or (col == num cols - 1 and row >= num rows -
num shaded boxes):
       col = 0
       row += 1
 return ".join(plain text)
# Example usage
message = "HelloWorld"
key = 4
encrypted_msg = encrypt_transposition(message, key)
print("Encrypted:", encrypted_msg)
decrypted_msg = decrypt_transposition(encrypted_msg, key)
print("Decrypted:", decrypted msg)
Output
Encrypted: HorelWlold
Decrypted: HelloWorld
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