7.Mono alphabetic

Program:

def generate\_cipher(keyword):

keyword = ''.join(sorted(set(keyword.upper()), key=keyword.upper().index))

return keyword + ''.join(filter(str.isalpha, 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'))

def monoalphabetic\_cipher(text, cipher\_sequence):

return ''.join(cipher\_sequence[ord(char) - ord('A')] if char.isalpha() else char for char in text.upper())

keyword = input("Enter the keyword: ")

cipher\_sequence = generate\_cipher(keyword)

plaintext = input("Enter the plaintext: ")

encrypted\_text = monoalphabetic\_cipher(plaintext, cipher\_sequence)

print("Cipher Sequence:", cipher\_sequence)

print("Encrypted Text:", encrypted\_text)

Output:

