1. Write a c program on ceaser cipher replacing each other of alphabet with letter standing k places for the down alphabet for k range is from 1-25.

Program:

def caesar\_encrypt(message, key):

encrypted\_message = ""

for char in message:

if char.isalpha():

ascii\_offset = ord('a') if char.islower() else ord('A')

encrypted\_char = chr((ord(char) - ascii\_offset + key) % 26 + ascii\_offset)

encrypted\_message += encrypted\_char

else:

encrypted\_message += char

return encrypted\_message

plaintext = "Hello, World!"

encryption\_key = 3

ciphertext = caesar\_encrypt(plaintext, encryption\_key)

print("Ciphertext:", ciphertext)

output:

Ciphertext: Khoor, Zruog!