2. Write a C program for monoalphabetic substitution cipher maps a plaintext alphabet to a ciphertext alphabet, so that each letter of the plaintext alphabet maps to a single unique letter of the ciphertext alphabet.

Code:

```
plain_alphabet = "ABCDEFGHIJKLMNOPQRSTUVWXYZ"

cipher_alphabet = "QWERTYUIOPASDFGHJKLZXCVBNM"   # Example substitution

def encrypt(text):

   text = text.upper()

   result = ""

   for ch in text:

      if ch.isalpha():

         index = plain_alphabet.index(ch)

         result += cipher_alphabet[index]

      else:

     result += ch

 return result

message = input("Enter message: ")

print("Encrypted:", encrypt(message))
```