Caesar's Cipher

Wklv lv hdvb zlwk sbwkrq.

Background
In the 1st century B.C., Julius Caesar communicated with his generals on the field through written communication. To avoid the message being read if intercepted, he used a simple cipher. He would write his communications, but hid the message by shifting each letter by 3 positions. Instead of "attack from the east," he would write "dwwdfn iurp wkh hdvw."

abcdefghijklmnopqrstuvwxyz

This was an effective method at the time, particularly as most enemy soldiers were poorly educated and illiterate.

1. Use Caesar's Cipher to encode "Hello world!", manually.

2. Write a function for encoding. The function takes a string (message) and a number (each letter will be shifted by this number of positions) as its parameters, and returns an encrypted message.
3. Write a class named encoder: it has an attribute, shift (which needs to be setup in the constructor), and a method encrypt() that takes a message and returns an encrypted message.