Please write an encode method to implement a Vigenère cipher. A Vigenère cipher uses a Caesar shift for each letter in the original text based on a "key".

A Caesar shift is just shifting each letter in the original text forward or backward in the alphabet. For example, the word "the" with a Caesar shift of 1 would be "uif" (each letter moved forward in the alphabet by one value).

A Vigenère cipher does an independent Caesar shift for each letter based on a key. For example, if your text is "ciphertext" and your key is "and", it would work as follows:

* The first letter in original string"c" will be offset by the first letter in the key "a". Since "a" is the first letter in the alphabet, there will be no offset and resulting first letter will be "c".
* The second letter in the original string "i" will be offset by the second letter in the key"n". Since "n" is 13 letters forward from the beginning of the alphabet, the offset to "i" will be 13. The resulting second letter will be "v".
* The third letter in the original string"p" will be offset by the third letter in the key "d". Since "d" is three letters forward in the alphabet from "a", "p" will be offset by 3. The resulting third letter will be "s".
* The fourth letter in the original string "h" will be offset by the first letter in the key "a" because we ran out of letters in the key and just start from the beginning again. Since "a" is the first letter in the alphabet, there will be no offset and resulting first letter will be "h".
* You should be able to figure out the rest of the pattern from there.