1. Problem solving

Given string *str* consisting of letters only and an integer *n*, the task is to replace every character of the given string by a character which is n times more than it. If the letter exceeds ‘z’, then start checking from ‘a’ in a cyclic manner.

Algorithm:

* Iterate for every character in the string
* Check if ‘a’ excess greater than 90(ASCII of Z) or 122(ASCII of z)
* If it excesses, the new character will be ASCII of character + a%26
* Or else, simply the new character will be character of (ASCII value of iterating character + a%26)

Time complexity: O(N) since we are simply iterating the length of string

Disadvantage of using the ASCII value of the letters Code: since this won’t work if string has special characters

Code:

def func(str,a):

temp=""

for i in str:

temp+=chr(ord(i)+a%26)

print(temp)

func('abc', 100)

Output: wxy