ELECTRICAL TEAM TRAINING

TASK 1

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ABSTRACT

You have a golden trophy from your last competition and you want to keep it in your safe away from the thieves.

Your treasury system is controlled by an arduino board. The arduino is connected to a led. When you enter the correct password, the led is turned ON. When the wrong password is entered the led Blinks.

In either case, it resets after 3 seconds and waits for the password again.

There is a catch, you are aware that thieves can spy on you while typing the password.
so you decide to enter the password encoded by Caesar Cipher, and each time you enter the password correctly, every character in the password shifts by 1, so every time the password is different but only you know what it is.

You are required to write an arduino code that implements the following:

- Take input from the user using serial monitor (first input is the correct password)
- Decode the input USING POINTERS
- Set led state for 3 seconds
- Go back to the first step and take input from user again

FEATURES

- The user first enters the correct password (setting the password)
- Each successful passwords shifts the cipher by 1, so the next password is different.

Caesar cipher is ciphering method in which each letter is shifted by 'n' number of places.

EXAMPLE

If the password was "agi"

The user should enter
On 1st try : "bhj" (shift by 1)
On 2nd try : "cik" (shift by 2)

BONUS

- Handle numbers and uppercase letters in the password.