20250311 Pfrojekt pfür pfertige Pfrüflinge

Aufgabe 1 Get Ready

You are a Group of Hackers! Give yourself a catchy name and hear about your first strike! Read the instructions and files carefully and work as a Team!

You get one file with the base program, add Classes, methods, loops, etc., as needed.
You get a Class in that you do NOT look inside!!!

Aufgabe 2

U stubble around in the darknet, browsin' the web! As all of your phones ring at the same time. A contact from you is in trouble. They caught him, but you can save his ass if you can crack his machine and delete all his files remotely.

Getting on his Wifi should be an easy task, since you know that he is a foolish guy and didn't change the default PW.

Write a Method which brute-force the password! (brute-force is a rather "stupid" and profane way of getting in: like in the real world it is hard not to be noticed, but it is rather quick since computers can perform billions of operations per second).
As you know the standard PW for a Wifi is 5 characters long and only contains numbers. You calculate the execution Time for around 2 mins.

Aufgabe 3

As the brute-force method gets you in the Wifi it failed to crack your friend's machine, he sends you an encrypted Text. In the Text lies the PW.

Jv mxpptloa fp ifkhba ql bsbov Tloa fk qefp Qbuq. Qxhb qeb cfopq Ibqqbo xka bsbov mrkzqrxqflk, yb zxobcri xka Klqb qeb Rmmbo xka iltbo Zxpb. Ycqbo xii qebob fp qeb Krjybo 42!

As you know him very Well he uses the **caesar chiffre,** a very simple encryption where every letter is moved on the alphabet a number of times. Since your friend's lucky Number is 3, you should try +3 and -3.

Write a method to decrypt his message, and try his PW. The Ascii table should help you.

Aufgabe 4

Ok you did it, you cracked his PWs and copied his files over to your machines and deleted all his data.
To be safe, encrypt his Data now, so you can store it safely.

Write a Method to encrypt a Text with the caesar chiffre and user input as key.

You get an Array with names that should be encrypted.