# Prosit PA\_Arithmetic\_and\_Cryptography

https://moodle.cesi.fr/pluginfile.php/143030/mod\_resource/content/3/co/\_7\_-\_Mini\_prosit\_Arithmetique\_et\_Cryptographie.html

### Animateur :

Meriem

### Scribe :

Kevin

### Gestionnaire :

Chaïma

### Secrétaire :

Manav

## Mots-clés :

* Encrypted message – a message which has gone through the process of converting information or data into a code to prevent unauthorized access.
* Decrypted message – a message which has gone through the process of converting previously encrypted data into information that can be read by humans and/or computers
* Coordinates - each of a group of numbers used to indicate the position of a point, line, or plane.
  + Latitude - the angular distance of a place north or south of the earth's equator, usually expressed in degrees and minutes.
  + Longitude - the angular distance of a place east or west of the Greenwich meridian, usually expressed in degrees and minutes.
* Scientific demonstration - a procedure carried out for the purposes of demonstrating scientific principles, rather than for hypothesis testing or knowledge gathering
* ASCII Message - ASCII (American Standard Code for Information Interchange) is the most common character encoding format for text data in computers and on the internet.
* Decipher - convert an encrypted message into normal language to succeed in understanding, interpreting, or identifying the message.

**Contexte :**

Alexander discovers ancient scrolls containing encrypted messages left by his ancestors. He seeks help to decipher these codes and create a Python tool to decrypt similar messages, unlocking the secrets hidden in the castle.

## Contraintes :

* Given message
* Scientific demonstration
* Python app
* Weight of letters
* ASCII

## Problématiques :

* How do we develop a Python application to decipher these messages and uncover the hidden treasures of MacLeod Castle?

## Livrables :

* Python app for message Decryption

## Pistes de solutions :

* Use ASCII Tables
* RSA Decryption
* Use the Caesar

## Plan d’actions :

1. Study cryptography
2. Decipher the GPS coordinates
3. Generalized python function for Deciphering
4. Deliver a scientific demonstration