Cipher Challenge 4: Caesar II

# Solve the message:

**Message:**

**Text, letter

Description automatically generated**

What does the deciphered message say?

Send 42 Troops now, 12 left flank, 14 right flank, 15 defend, lin 1 spy.

# Explain the solution:

* What methods did you use to solve the cipher?
* How long did it take to solve the cipher?
* Was it more difficult? Why?

**I used the cipher key to decipher the code. table that shows the relationship between plain text and cipher text in a Caesar cipher with a shift of 10. It maps each letter in the plain text to a corresponding letter in the cipher text. For example, the letter "A" in the plain text becomes the letter "V" in the cipher text, "B" becomes "W", and so on. This shift of 10 can be used to encode a message by replacing each letter in the plain text with the corresponding letter in the cipher text, or to decode a message by doing the reverse.**

**It took me about 5 mins to solve the cipher, without the hint for the cipher key, it would be much more difficult to decipher the code/**

# Historical points or issues found:

What are some of the issues surrounding this cipher?

**The Caesar cipher is a very basic and easily crackable cipher, and as such, it has several issues:**

1. **Key vulnerability: The key used in the Caesar cipher is simply the number of shifts, which can be easily discovered through frequency analysis or brute force methods.**
2. **Lack of diffusion: The Caesar cipher doesn't diffuse the plaintext uniformly, meaning that patterns in the plaintext will still be present in the ciphertext. This makes it easier to perform frequency analysis and crack the cipher.**
3. **Limited character set: The Caesar cipher only works with the 26 letters of the alphabet, and has no provisions for digits, special characters, or spaces.**
4. **Inadequate security: The Caesar cipher provides very weak security, and is not suitable for secure communication, as it can be easily broken even by a simple cryptanalysis attack.**

Hints:

* Use the CC4 spreadsheet file for the key.
* Notice how (blanks or spaces) are used in the cipher text and the plain text!
* Notice that Z is not used in the plain text.