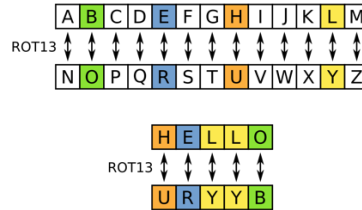
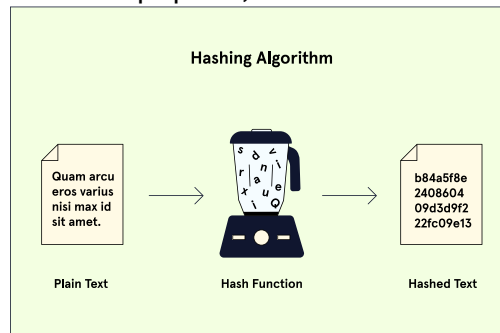


Cracking The Code Tip Sheet

- If you see encrypted text ending with a = sign, it's probably Base64.
The string "Hello" becomes "SGVsbG8=" when encoded.
- ROT is short for Rotation Cipher. It's also known as a Caesar cipher. A simple technique where each letter in a plaintext is shifted a fixed number of positions down the alphabet.



- A hash is a mathematical method of transforming any string of characters into a fixed length value. It's more of a signature of the string of characters put into the hash algorithm. MD5 is the most popular, but SHA256 is more secure.



- Openssl is a great command line tool used to encrypt plain text with salt (or a password). You will need this salt (password) to decrypt the cyphertext.
Encrypt a file using Blowfish in CBC mode:

```
openssl bf -a -salt -in file.txt -out file.bf
```

Base64 decode a file then decrypt it:

```
openssl bf -d -a -in file.bf -out file.txt
```

Websites that help with encryption/decryption:

<https://www.base64encode.org/>

<https://ROT13.com>

<https://www.md5hashgenerator.com/>

https://wiki.openssl.org/index.php/Command_Line_Uutilities

<https://gchq.github.io/CyberChef>