

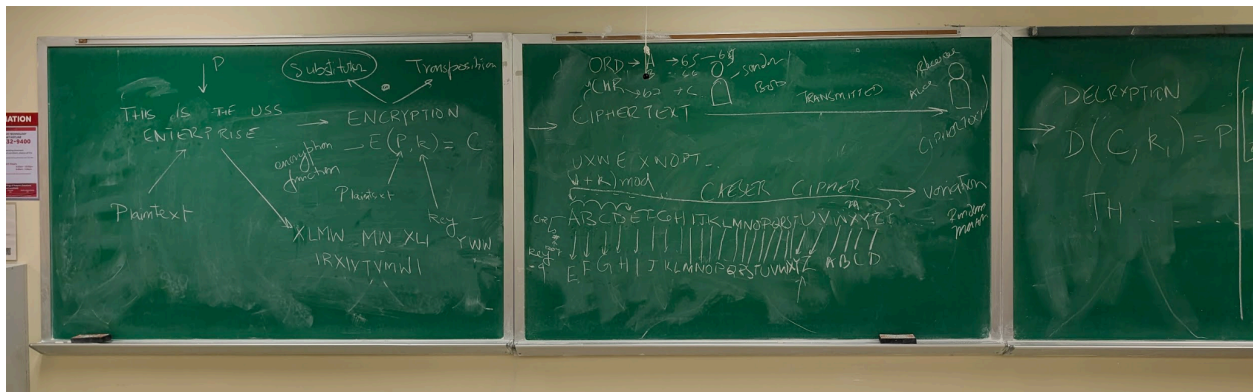
## KEY CONCEPTS IN PRIOR WEEKS:

In the last two prior, we reviewed two concepts - functions and python dictionaries. If you missed the class or need a quick refresher,

1. Functions
  - a. Reading: [https://www.w3schools.com/python/python\\_functions.asp](https://www.w3schools.com/python/python_functions.asp)
  - b. Class Code: <https://colab.research.google.com/drive/1iRScZrQbfR0G3RZn8aiHEdyOcPLYMdZY#scrollTo=G46CxizOGuRf>
2. Dictionaries
  - a. Reading: [https://www.w3schools.com/python/python\\_dictionaries.asp](https://www.w3schools.com/python/python_dictionaries.asp)
  - b. Class Code: [https://colab.research.google.com/drive/1abKJvCD-VqypACNb38JemhAy8D98WLVl?authuser=0#scrollTo=-9FG-\\_UAXRY7](https://colab.research.google.com/drive/1abKJvCD-VqypACNb38JemhAy8D98WLVl?authuser=0#scrollTo=-9FG-_UAXRY7)

## LAST WEEK

We reviewed encryption and decryption, in particular substitution ciphers. You can read a summary of the content at <https://www.stackzero.net/substitution-ciphers/>. You can stop after the section on Caesar Cipher, the rest of the content on that page is optional. A picture of the blackboard from class is here:



## PROJECT

We are going to combine our knowledge of functions and dictionaries to create a high performance implementation of the Caesar cipher. I have provided the code skeleton here: Project 2 - substitution cipher - Part 1.ipynb:

[https://colab.research.google.com/drive/16A69YLjjTwNpUISXl2\\_xsn-SLxj7uXVg](https://colab.research.google.com/drive/16A69YLjjTwNpUISXl2_xsn-SLxj7uXVg)

Code from previous weeks is still available at :

<https://colab.research.google.com/drive/1MiXv0NwGZz8SKl6WXylbReCNHJnWD9PC>