

## KEY CONCEPTS IN PRIOR WEEKS:

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

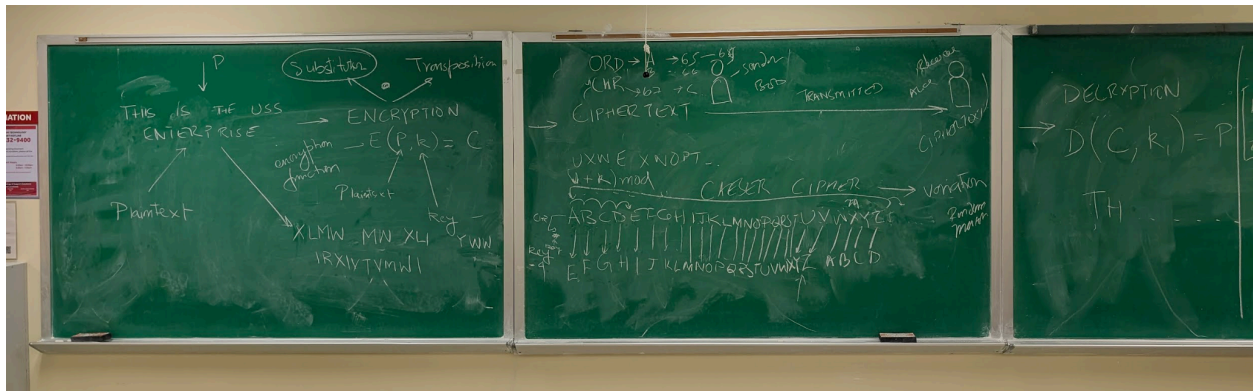
a. Reading: [https://www.w3schools.com/python/python\\_dictionaries.asp](https://www.w3schools.com/python/python_dictionaries.asp)

b. Class Code:

<https://colab.research.google.com/drive/1abKJvCD-VqypACNb38JemhAy8D98WLvI?authuser=0#scrollTo=-9FG-UAXRY7>

We reviewed encryption and decryption, in particular substitution ciphers. You can read a summary of the content at <https://www.stackzero.net/substitution-ciphers/>

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. 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)

Possible Solutions to Part 1:

[https://colab.research.google.com/drive/1CilcX3j62gC7146nWU\\_RneIV\\_ir-QCWZ](https://colab.research.google.com/drive/1CilcX3j62gC7146nWU_RneIV_ir-QCWZ)

Now for Part 2:

<https://colab.research.google.com/drive/14IPRjw34LaNEJtGxCJE4CU-6RFtXC32F>

Code from previous weeks is still available at :

<https://colab.research.google.com/drive/1MiXv0NwGZz8SKI6WXylbReCNHJnWD9PC>