**Project Description:**

My python project focuses on the idea of character recognition. The idea is very similar to a homework we did which involved license plate number recognition which is basically built upon OCR (optical character recognition). I plan on constructing a code which will allow any user of my code to upload a clear photo of any paper with **typed** English words on it (this can be a page from a book or a newspaper), and then my code would recognize each character in the paper and write it electronically on any file of the user’s choosing (given that it is appropriate to the writing). The user would have the option to choose the color and the size of the outputted typed words as well. For this project, I will be using the ImageWriter library to receive an image and recognize the characters in it. I will also be using File I/O functions for file opening and writing. The demo presented in the first checkpoint will consist of a code that will recognize the characters in the photo given and then type these characters on a text file. I think this is a unique project because it allows the user to edit the text they took a photo of electronically. If it is possible to add one extra feature at the end, I would allow the user to know the definitions of the words they highlighted on the paper that they took a photo of and then my code would use Google or other electronic references to find their definitions and display the definitions in the same document at the end with reference to the website used (in this case I will also be using urllib library).