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Assignment 5

https://github.com/Timhitc/IntroToProg-Python

# Documenting Assignment Five

## Introduction

We are working with lists and dictionaries to manage a to-do list. We have to manage the list in memory as well as reading and writing it to a test file.

## The To-Do List

We were given a template to start off our to-do list. The basic end user facing menu was established and we needed to finish the file input and output as well as the adding and removing to items form the list.

I started by reading in the existing file. Using open I read each row of the table in the file and placed it into a dictionary. I used the keys Task and Priority, and appended the rows into a table in memory.

Graphical user interface, text

Description automatically generated

The user is able to view, add to, remove from the list as well as save to the file and exit. I cleaned up the output of the table to be a little more readable by breaking the data out of the table and building the output manually. 

To add to the list I asked the user for the task and priority and assigned the vales to variable. I assembled the provided data into a dictionary row and appended the list. Text

Description automatically generated

Removing a task proved to be the hardest. After getting the task name and assigning it to a variable I have a for loop building a temporary table of all the rows that do not contain the task. Not the most efficient but I was able to remove the row without using a function. Text

Description automatically generated

Lastly saving the list to a file required stripping the keys from each dictionary. I used the key names to output just the task name and priority to the file.

A screenshot of a computer

Description automatically generated with medium confidence

## Summary

Having a program to work with a to-do list is a great example of how to do some basic manipulation of data in memory and saving it in a file. The key and in functionality are the backbone of everything working correctly.