

**Allen E. Paulson College of Engineering& Computing**

**Department of Information Technology**

**Project 2**

Report for **Project 2** that is due on Sunday, January 30, 2022

As part of ITW 2431 Data Programming II

**Name: Michael Patak**

**Date of Submission: Sunday, January 30, 2022**

# Section 1 – Project 2 Prob 1 Purpose(s) of Program Problem, Output of Sample Run, and Learning Experience

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| 1. **Purpose(s) of Problem:**   The program will use the 'input()' function to ask the users to input their courses and professors this  semester, until the users input "done" to complete data entry. The program will put the courses and  professor names into two separate lists. The program will print out the data using a for loop for each  list. |
| 1. **Source Code File Name:** ITW2431\_P2\_P1\_mpatak.py |
| 1. **Other Supporting File(s) (if any):** n/a |
| 1. **Hours Spent on Developing the Solution of the Problem and Writing the Program:** 1.5 hour |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** This problem was a good exercise for getting different input from the command line and using the input two load two different lists. For the output I found using just one ‘while’ loop worked best. |

# Section 2 – Project 2 Prob 2 Purpose(s) of Program Problem, Output of Sample Run, and Learning Experience

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| 1. **Purpose(s) of Problem:**   The program will prompt the user to enter a file name, which the program will open and read it line  by line. The program will split the line into a list of words using the 'split()'. Create a list by checking if  a word is already in the list if it is not present add it to list. The program will output the created list  in alphabetical order. |
| 1. **Source Code File Name**: ITW2431\_P2\_P2\_mpatak.py |
| 1. **Other Supporting File(s) (if any):**  romeo.txt |
| 1. **Hours Spent on Developing the Solution of the Problem and Writing the Program:** 1.5 hour |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** This problem had a lot of things going on, opening a file, reading a file, splitting each line of input from the file. Then before loading it into the final list checking to make sure the word did not already exist in the list. The managing a file and list at the same time was challenging at first. I was over thinking the solution and once I simplified and reduced the number of lines of code I ended up with a more elegant solution.   The instructions did not say to have user enter the filename, but the output example had  “Enter file: “, which to me implied get the filename as input. So, I coded the input() as part of my  solution. |

# Section 5 – Assignment xx Prob x Purpose(s) of Program Problem, Output of Sample Run, and Learning Experience

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| 1. **Purpose(s) of Problem:** |
| 1. **Source Code File Name:** |
| 1. **Other Supporting File(s) (if any):** |
| 1. **Hours Spent on Developing the Solution of the Problem and Writing the Program:** |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** |