

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

**Department of Information Technology**

**Lab 8**

Report for **Lab 8** that is due on Thursday, March 10, 2022

As part of ITW 2431 Data Programming II

**Name: Michael Patak**

**Date of Submission: Thursday, March 10, 2022**

# Section 1 – Lab 8 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 has a function for checking if a string has any non-alphanumeric characters. The  program will use regular expression findall() to check the string for non-alphanumeric  characters and if it finds any return them as a list. The program output a message for no  non-alphanumeric characters found and an output if non-alphanumeric characters are found. |
| 1. **Source Code File Name:** ITW2431\_L8\_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 hours |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:**   Python regular expressions are difficult to understand. The book and other documentation I used for research are not consistent in how they explain regular expressions. I am closer to understanding regular expressions and after completing the labs and projects for this module.  I added an output string stating the purpose of the program to state the purpose of the program. I also added print statements that show the strings being tested. |

# Section 2 – Lab 8 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 has a function for checking if a string fits a specific pattern. The pattern being searched  for is the starts with a upper case letter, followed by all lower case letters. The program will then  output whether or not a string matched the pattern or not. |
| 1. **Source Code File Name**: ITW2431\_L8\_P2\_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 hours |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:**   Python regular expressions are difficult to understand. The book and other documentation I used for research are not consistent in how they explain regular expressions. I am closer to understanding regular expressions and after completing the labs and projects for this module.  I added an output string stating the purpose of the program to state the purpose of the program. I also added print statements that show the strings being tested. |