

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

**Department of Information Technology**

**Lab 2**

Report for **Lab 2** that is due on Thursday, January 27, 2022

As part of ITW 2431 Data Programming II

**Name: Michael Patak**

**Date of Submission: Thursday, January 27, 2022**

# Section 1 – Lab 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 have two functions that will modify a list elements. The first function 'chop(alist)'  removes the first and last elements from the list and returns the value of None. The second function  'middle' will return a list the contains all but the first and last elements. The output will show the  original list and the output of the 'chop' and 'middle' functions on the list. |
| 1. **Source Code File Name:** ITW2431\_L2\_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 hour |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** This problem was good for using two different methods to modify the list of elements. The first I used was the list.pop() function and the second was list splicing to modify the list. |

# Section 2 – Lab 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 shall have a function 'sum(alist)' that takes a list that contains a set of numbers as a  parameter and returns the sum of all the numbers. The output will show the original list and the  sum of all the numbers in the list. |
| 1. **Source Code File Name**: ITW2431\_L2\_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 hour |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** I found this problem to be easy. I leaned on previous experience executing the logic for summing a list of numbers. |

# Section 3 – Lab 2 Prob 3 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 'max(alist)' that takes a list that contains a set of numbers as a  parameter and returns the max of all the numbers. The output will show the original list and the  output of the 'max(alist)' the max number from the list. |
| 1. **Source Code File Name**: ITW2431\_L2\_P3\_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 hour |
| 1. **The Output of Program Sample Run:** |
| 1. **Overall Learning Experience for the Problem:** Similar to Lab 2 Problem 2 I leaned on previous experience executing the logic for find the max number from a list of numbers. |

# Section 4 – 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:** |

# 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:** |