**CSE 212 – Programming with Data Structures**

**W10 Prove – Response Document**

|  |  |
| --- | --- |
| **Name:** | Joseph Devincenzi |
| **Date:** | 6/21/2022 |
| **Teacher:** | Zachariah Alvey |

*It is a violation of BYU-Idaho Honor Code to post or share this document with others or to post it online. Storage into a personal and private repository (e.g. private GitHub repository, unshared Google Drive folder) is acceptable.*

**Question 1: Provide the outline for the data structures tutorial you are creating for the final project. Use the Python Fundamentals Tutorial outline provided in the assignment instructions as an example**

* WELCOME
  + Introduction
  + Contact
* STACK
  + Introduction
  + Functions associated with stack
  + Implementation
  + Example
  + Practice problem
* LINKED LISTS
  + Introduction
  + Practical Applications
  + Performance Comparison Lists vs. Linked Lists
  + Implementing Linked Lists
  + Using Advanced Linked Lists
  + Example
  + Practice problem
* BINARY TREE
  + Introduction
  + Creation
  + Functions
    - Inserting
    - Removing
    - Traversing
    - Searching through
  + Real World Application
  + Example
  + Practice problem