SSN College of Engineering

Department of Information Technology

UIT2201 — Programming and Data Structures

2022 - 2023

Exercise — 10

June 7, 2023

- This homework is due by 10PM on June 14, 2023
- Grace period may be given up to midnight of June 14, 2023
- You can upload only one ZIP file
- The naming convention is "<Your first name (first letter capital and all the other letters small)>- UIT2201-ex-09.zip"
- Judicious use of Python features and standard modules, version control using 'git', adhering to Python coding standards are expected
- You are expected to use PSP0.1 process for all the code that you write!

The purpose of this exercise is to understand the design of Linked implementation of List, Stack, and Queue ADTs.

Part A

- 1. Design and implement Linked List with the following operations.
 - Isempty
 - Display
 - Find
 - append
 - Insert by pos
 - Delete by pos
 - Insert by specifying previous value.
 - Delete by specifying previous value.
- 2. Design and implement Linked stack and Queue ADT with various operations