Programming and Data Structures

Worksheet One

This worksheet is to help you become familiar with the basics of

* ArrayLists, LinkedLists
* Stacks and Queues

This worksheet is worth 10% of your CA

Submit before : 07/03/25

Create a project called PDS\_LabOne\_StudentNumber

With StudentNumber being your student number i.e PDS\_LabOne\_32323

Zip the whole project folder and upload your folder as PDS\_LabOne\_StudentNumber.zip

Add your Student name, and ID as a comment at the top of each file. **All code must be commented**, no comments can result in no marks being rewarded.

**A list of text on a white background

AI-generated content may be incorrect.**

**Note**:

Do not use stream or other functional interfaces, loops only.

**A paper with text and words

AI-generated content may be incorrect.**

**Note**:

Algorithms for part two should be implemented from the pseudocode in the notes, you won’t get full marks for an alternative implementation.

**Comments and Coding Standards**

Comments

* Include a comment at the top of the file with your name and student number.
* Add comments for each method explaining what the code does.

**(5 marks)**

Follow coding standards:

* Lowercase for variable names.
* Uppercase for the class name.
* All uppercase for constants.
* Use naming standards.
* Indent your code.

**(5 marks)**