



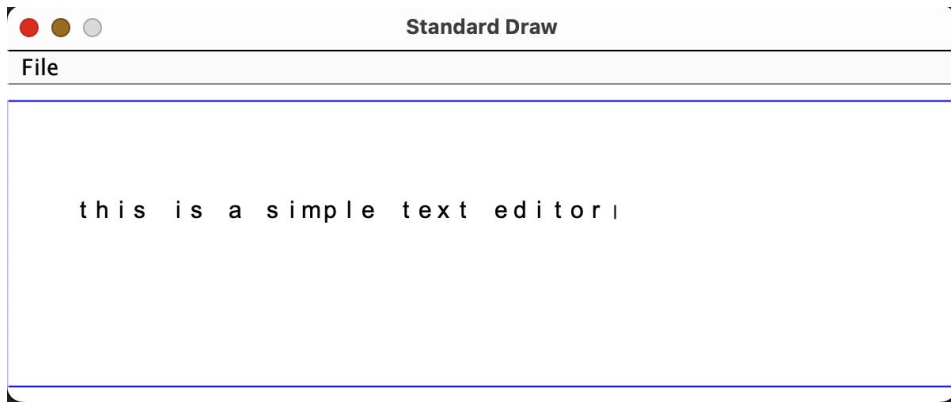
COMP 160

Object-oriented Programming

Lab 9

Simple Text Editor

We will implement a simple text editor using a linked list, focusing on implementing basic text editing functionalities such as typing, deleting characters, and moving the cursor accordingly.



Implementing LinkedList Class

<i>LinkedList<T></i>
- head: Node<T> - size: int
+ insert(int, T): void + remove(int): void + getHead(): Node<T>

<i>Node<T></i>
+ data: T + next: Node<T>

TextEditor

Create a 600x200 canvas.

```
private static final double TEXT X = 0.08; // X-coordinate for text
private static final double TEXT Y = 0.6; // Y-coordinate for text
private static final double CHAR WIDTH = 0.02;
private static final Font TEXT FONT = new Font("Arial", Font.PLAIN, 15); //
Font for text
```

You can use this values if you set X and Y scale as (0,1).

... or whatever looks beautiful to you.

TextEditor UML

Store each character in a LinkedList and update it according to the incoming input character.

Note: cursorVisible is used for toggling the cursor visibility, i.e. making the cursor visible for 0.5 seconds and invisible for the next 0.5 continually

