**Lab Report 05**

Problem

Using the given driver file, create a queue for scheduling a linked list of processes. The list will contain a list of objects, which are then queued for processing.

Solution Description

The process scheduler adds and removes objects from the queue as needed and then prints them. The front-end calls the methods that satisfy the example and simulation.

Problems Encountered

At first, the program printed an error from trying to queue null elements. To fix this, I debugged some methods that were incorrectly formatted and it worked as intended.

4. A queue stores values in memory and reserves addresses for new ones once they are dequeued. The first and last element are used for queuing methods.

5. It is good to use queues whenever you need to sequentially run pieces of code and store them in memory. It is useful to recursive iterate through linked lists, arrays, or other data structures.

6. Queues are commonly used to make data structures recursive and whenever you need to run code sequentially

7. (Head) 5 > 25 > 35 > 45 > 55 > 22 > Tail

8. (Head) “j” > “k” > “l” > “m” > “n” > “o” > Tail

9. The variable ‘i’ should be initialized the index that comes after the head (head+1)

10. Advance the temp node that was created instead of the head so that the list iterates as intended