Activity No. <n> <title>	
Course Code: CPE 201L	**Program:** BSCpE
Course Title: Data Structure and Algorithm	**Date Performed:** August 30, 2025
Section: 2 - A	**Date Submitted:** August 30, 2025
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1.Objectives

- Demonstrate the use of a queue structure in Python.
- Show how to traverse and reverse the order of elements in a queue.

2. Discussion

- A queue is a data structure that follows the First In, First Out (FIFO) principle. The provided program enqueues (appends) data to a queue and allows for traversing the queue in both original and reversed order.

3. Materials and Equipment

- Google Colab (IDE)
- Queue class to implement enqueue, display, and reverse operations.

4. Procedure

- Define a Queue class with methods: enqueue to add/append items, display to show items, and reverse to reverse the queue.
- Instantiate a queue object and enqueue the names in order.
- Call the display method to show names in the original order and the reverse method to show names in reversed order.

5. Output

- Full Name Transverse: JUSTINE RIVERA VILLACIN
- Full Name Reverse: VILLACIN JUSTINE RIVERA

7. Conclusion

- The program successfully demonstrates how to use a queue to store and manipulate data. The queue's functionality is evident through the display and reverse methods.

Lab Activity Rubric

Criteria	Ratings						Pts
SO 7 PI 1 **Student Outcome 7.1** Acquire and apply new knowledge from outside sources. threshold: 4.8 pts	6 pts Excellent | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good | Educational interests and pursuits exist and flourish outside classroom requirements,knowledge and/or experiences are pursued independently	4 pts Satisfactory | Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory | Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor | Relies on classroom instruction only	1 pts Very Poor | No initiative or interest in acquiring new knowledge	6 pts
SO 7 PI 2 **Student Outcome 7.2** Learn independently threshold: 4.8 pts	6 pts Excellent | Completes an assigned task independently and practices continuous improvement	5 pts Good | Completes an assigned task without supervision or guidance	4 pts Satisfactory | Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory | Requires detailed or step-by-step instructions to complete a task	2 pts Poor | Shows little interest to complete a task independently	1 pts Very Poor | No interest to complete a task independently	6 pts
SO 7 PI 3 **Student Outcome 7.3** Critical thinking in the broadest context of technological change threshold: 4.8 pts	6 pts Excellent | Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good | Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory | Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory | Apply the gathered information to formulate the problem	2 pts Poor | Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor | Gather information from a variety of sources	6 pts
SO 7 PI 4 **Student Outcome 7.4** Creativity and adaptability to new and emerging technologies threshold: 4.8 pts	6 pts Excellent | Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good | Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory | Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory | Shows some creative ways to solve the problem	2 pts Poor | Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor | Ideas are copied or restated from the sources consulted	6 pts
							Total Points: 24