SET 213 – Data Structures & Algorithms

Experiment # 4

Experiment Title

Queue Operations

Assessment of CLO(s): IV

Performed on 11-10-2024

Student Name			
Roll No.		**Group**	
Semester		**Session**	

Total (Max)	Criteria 1 (2.5)	Criteria 2 (2.5)	Criteria 3 (2.5)	Criteria 4 (2.5)	Total (10)
Marks Obtained					
Remarks (if any)					

Experiment evaluated by

Instructor's Name	**Engr. Muhammad Asad Husain**		
Date		**Signature**	

Department of Engineering Technology
(UIT University)

Course Code: SET213 Course Title: Data Structures & Algorithms Credits: 2+1 Session: Fall 2024

Rubric for assessment criteria to perform experiment number 4.

Level / Criteria	UNSATISFACTORY 1	COMPETENT 2	PROFICIENT 3	DISTINGUISHED 4
Capability of writing algorithm/ Procedure	None of the steps are implemented of an algorithm.	Few steps are implemented correctly of an algorithm.	Most of the steps are implemented correctly of an algorithm.	All the steps are implemented correctly of an algorithm.
Capability of writing Program	Programs not completed.	Completeness of code, consistent variable naming and unformatted.	Completeness of code, inconsistent variable naming and well formatted.	Completeness of code, consistent variable naming and well formatted.
Completion of target in Lab	25% target has been completed	50% target has been completed	75% target has been completed	100% target has been completed
Output	None of the outputs are correct.	Few outputs have been found correctly.	Some of the outputs are correct and well formatted.	Most of the outputs are correct and well formatted.

Practical Objective(s):

1. To implement Queues on Linear Arrays.
2. Insertion and Deletion in queues.

Do It Yourself:

1. Create two functions qinsert() and qdelete() by implementing procedure 1 and procedure 2, respectively .
2. Write a program which inserts five students' names in a queue and then deletes 2 names from that queue using qinsert() and qdelete().