



## SET213 – Data Structures & Algorithms

### Experiment # 09

#### Experiment Title

Linked List - I

#### Assessment of CLO(s): IV

Performed on 06-12-2024

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**

**Course Credits: 3+1**

**Session: Fall 2024**

**Rubric for assessment criteria to perform experiment number 9.**

<b>Level Criteria</b>	<b>UNSATISFACTORY 1</b>	<b>COMPETENT 2</b>	<b>PROFICIENT 3</b>	<b>DISTINGUISHED 4</b>
<b>Capability of writing algorithm/ Procedure</b>	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.
<b>Capability of writing Program</b>	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.
<b>Completion of target in Lab</b>	25% target has been completed	50% target has been completed	75% target has been completed	100% target has been completed
<b>Output</b>	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):**

- i. Creating a Linked List using structures and pointers.
- ii. Traversing a Linked List.

**Do It Yourself:**

1. (a) Add these fields in the structure node created in Program 1.
  - Vehicle type (e.g. car, van, bus, truck etc.)
  - Vehicle company
  - Vehicle color
- (b) Print all the vehicles of a given type.