



SET 213 – Data Structures & Algorithms

Experiment # 6

Experiment Title

String Processing and Pattern Matching
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Assessment of CLO(s): IV

Performed on 25-10-2024

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 Course Credits: 2+1 Session: Fall 2024

Rubric for assessment criteria to perform experiment number 6.

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. Getting familiar with basic string operations
2. Learning to use various built-in functions for performing basic string operations
3. Implementing insertion, deletion and replacement operations on strings

Do It Yourself:

1. Implement algorithm 2 in C++.
2. Implement algorithm 3 in C++.
3. Complete the pseudo code given in **Code 2** and observe the output.
4. Execute the program you have completed in 3. Use the below mentioned strings and write the INDEX for each pair:
 - a. text = **baaanabanana**, pattern = **banana**
 - b. text = **whatareyoudoing**, pattern = **you**
 - c. text = **wethepeople**, pattern = **Booo**