LAB ASSIGNMENT REPORT

On

BCA 355
Data Structure Using C++ Lab

COLLEGE OF COMPUTING SCIENCES AND INFORMATION TECHNOLOGY

TMU, MORADABAD

Session: 2021-22 (Odd Sem)

Submitted To:	**Submitted By:**
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	Enrollment No. :

ASSIGNMENT I - ARRAY, STRING

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP for finding sum and average of numbers using array.				
2	WAP to find the maximum element in an array A of size n.				
3.	WAP to insert an element into an array.				
4.	WAP to delete an element an element from an array.				
5.	WAP to print the sum of the diagonal element of the N*N square matrix.				
6.	WAP to print the transpose of m*n matrix.				
7.	WAP to calculate sum of the element of two square matrix.				
8.	WAP to calculate product of the element of two square matrix				
9.	WAP to find the reverse of a given string.				
10.	WAP a program to check a given string is palindrome or not.				
11.	WAP for comparison of two string without using strcmp () function.				
12.	WAP to calculate the length of string without using library functions.				
13.	WAP to copy one string into another without using library function.				
14.	WAP to concatenate two given string into one string without using library function.				

ASSIGNMENT II - STACK, QUEUE, LINKED LIST

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP to find the factorial of a no using Recursion.				
2.	WAP to perform push & pop operation on the stack. Check the underflow & overflow condition using array.				
3.	WAP to implement the Queue using Array.				
4.	WAP to implement Circular Queue with array.				
5.	WAP for making a linear linked list with following operation: (1) Insertion (at beginning, at End, at particular position) (2) Deletion (at beginning, at end, particular position) (3) Traverse (4) Search an element.				
6.	WAP with above operations for the doubly linked list.				
7.	WAP with above operations for the circular linked list.				
8.	WAP to implement the Queue using Linked List.				
9.	WAP to implement Circular Queue using Linked List.				

ASSIGNMENT III – SORTING, SEARCHING

S.NO	PROGRAM NAME	PAGE NO	DATE	SIGN	REMARK
1.	WAP to search an element using Linear Search Method.				
2.	WAP to search an element using Binary Search Method.				
3.	WAP to sort an array using Selection sort method.				
5.	WAP to sort an array of given numbers using Bubble sort method.				
6.	WAP to sort an array of given using Insertion sort method.				
7.	WAP to sort an array of given numbers using Quick sort method.				
8.	WAP to sort an array of given numbers using Heap sort method.				
9.	WAP to merge two sorted arrays.				