LISTOF EXPERIMENTS

Sr. No	List	Date
1	Write a C Program to Implement following : 1. To traverse elements of an array. 2. To calculate the factorial of a number using recursion. 3. To find the address of a variable using a pointer. 4. To count the length of the string. (Do not use strlen( )) 5. To reverse the string. (Do not use strrev( )). 6. To count the number of a particular character entered by a user. 7. To count & display all the vowels. 8. To change the case of the string. (Lower to Upper & Upper to Lower). 9. To concatenate two strings. 10. To compare two strings.	
2	Implement function of stack with following operations: 1. Push( ) 2. Pop( ) 3. Peek( ) 4. Display( ) 5. Isempty( ) 6. Isfull( )	
3	Implement Applications of Stack. 1. Write a program to recognize the string with language L={wcwR / w takes multiple occurrences of {a,b}}. 2. Write a program to check the validity of expressions, which contains multiple opening and closing brackets. (i.e., [{(a+b) * c} – d]). 3. Write a program to convert unparenthized and parenthized infix expressions to postfix. 4. Write a program to evaluate the given postfix expression.	
4	Implement function of Queue with following operations: 1. Write a program to Implement Simple Queue with following operations: 1. Enqueue() 2. Dequeue() 3. Display( ) 2. Write a program to Implement Circular Queue with following operations:	

	1. Enqueue() 2. Dequeue() 3. Display( ) 3. Write a program to Implement Deque with following operations: 1. InsertAtRear( ) 2. InsertAtFront( ) 3. DeleteAtRear( ) 4. DeleteAtFront( ) 5. Display( ) 4. Write a program to Implement Priority Queue.	
5	Implement Program for Linked List. 1. To implement singly linked list with following operations: 1. InsertAtFirst( ) 2. InsertAtLast( ) 3. InsertAfterspecifiednode( ) 4. DeleteAtFirst( ) 5. DeleteAtLast( ) 6. DeleteAfterspecifiednode( ) 7. Traverse (Display) 2. To implement a doubly linked list with above functions. 3. To implement a circular linked list with above functions.	
6	Implement various sorting algorithms: 1. BubbleSort 2. SelectionSort 3. InsertionSort 4. ShellSort 5. MergeSort 6. QuickSort 7. HeapSort	
7	Write a C Program to implement a Binary Search Tree.	
8	Write a C Program to implement searching algorithms for the following: 1. SequentialSearch( ) 2. BinarySearch( )	
9	Write a C Program to Implement Hash Tables.	