Government Engineering College, Rajkot Computer Engineering Department B.E. 3rd Semester Data Structures (3130702)

Enrollment No.	

Sr. No.	Practical Definition.	Page No.	Date	Signature
1	Introduction to pointers. Call by Value and Call by			
	reference.			
2	Introduction to Dynamic Memory Allocation. DMA			
	functions malloc(), calloc(), free() etc.			
3	Implement a program for stack that performs			
following oper	following operations using array. (a) PUSH (b) POP			
	(c) PEEP (d) CHANGE (e) DISPLAY			
4	Implement a program to convert infix notation to			
	postfix notation using stack (with and without			
	parenthesis) and evaluation of postfix expression.			
5	Write a program to implement QUEUE using arrays			
	that performs following operations.			
	(a) INSERT (b) DELETE (c) DISPLAY			
6	Write a program to implement Circular Queue using			
	arrays that performs following operations			
	(a) INSERT (b) DELETE (c) DISPLAY			
7	Write a menu driven program to implement following			
	operations on the singly linked list.			
	(a) Insert a node at the front of the linked list.			
	(b) Insert a node at the end of the linked list.			
	(c) Insert a node such that linked list is in ascending			
	order.(according to info. Field)			
	(d) Delete a first node of the linked list.			
	(e) Delete a node before specified position.			
	(f) Delete a node after specified position.			
8	Write a program to implement stack using linked list.			
9	Write a program to implement queue using linked list.			
10	Write a program to implement following operations			
10	on the doubly linked list.			
	(a) Insert a node at the front of the linked list.			
	(b) Insert a node at the end of the linked list.			
	(c) Delete a last node of the linked list.			
	(d) Delete a node before specified position.			
11	Write a program to implement following operations			
11	on the circular linked list.			
	(a) Insert a node at the end of the linked list.			
	(b) Insert a node before specified position.			
	(c) Delete a first node of the linked list.			
	(d) Delete a node after specified position.			
12	Write a program which create binary search tree.			
	program which create official section aloo.			
13	Implement recursive and non-recursive tree			
	traversing methods inorder, preorder and postorder			
	traversal.			
14	Write a program to implement Quick Sort.			
15	Write a program to implement Merge Sort.			
16	Write a program to implement Bubble Sort.			
17	Write a program to implement Linear and Binary			
	Search.			