

DATA STRUCTURES AND ALGORITHMS

CYCLE SHEET-1

1. Write a C program to implement stack using array
2. Write a C program to implement infix to postfix expression
3. Write a C program to implement infix to prefix expression
4. Write a C program to implement evaluation of postfix
5. Write a C program to implement evaluation of prefix
6. Write a C program to implement Towers of Hanoi problem
7. Write a C program to implement Linear Queue using array
8. Write a C program to implement circular queue
9. Write a C program to implement Ascending priority queue
10. Write a C program to implement Descending priority queue

CHALLENGING EXPERIMENT

Students of a Programming class arrive to submit assignments. Their register numbers are stored in a LIFO list in the order in which the assignments are submitted. Write a program using array to display the register number of the ten students who submitted first.

Register number of the ten students who submitted first will be at the bottom of the LIFO list. Hence pop out the required number of elements from the top so as to retrieve and display the first 10 students.