University of Engineering & Management, Kolkata

Department of Computer Science & Engineering

DATA STRUCTURE LAB

Subject Code - CS392

SESSION- 2018 ODD SEM

ASSIGNMENT – VI

Objective – To implement some Application of

Stack & Queue

Date of Assignment - 05.09.2018

Date of Submission - 12.09.2018

6.1   Write a C program to generate the postfix expression from infix given expression.

6.2   Write a C program to evaluate postfix expression.

6.3   Write a C program to calculate factorial of a number using STACK.

6.4   Write a C program to sort some unsorted data using stack.

6.5   Write a C program to implement the concept of double stack.

6.6   Write a C program to check whether a given expression is infix or not.

6.7   Write a C program to check for balanced symbols ({}/()/[]) in an expression.

6.8   Write a C program to evaluate the following using stack

sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(sin(x)))))))))))))))))

6.9   Write a C program to check a string is palindrome or not using stack.

6.10   Write a C program to implement stack using dynamic memory allocation.

6.11   Write a C program to implement the concept of priority queue using array.

6.12   Write a C program to implement the concept of priority queue using Linked List.

6.13 Write a C program to implement the concept of doubly ended queue using array.

6.14 Write a C program to implement the concept of doubly ended queue using linked list.

6.15 Write a C program to implement a Queue using stack.