CSD102- Data Structure

Practice Assignment #1

Grading Criteria: - No Grading Criteria.

Submission: - Not required.

- 1. Write a program to create the exponential function using recursion to compute 2^16
- 2. Write a program to find the median of two sorted arrays.
- 3. Given an integer array nums, return all the triplets [nums[i], nums[j], nums[k]] such that i != j, i != k, and j != k, and nums[i] + nums[j] + nums[k] == 0.
- 4. Write a program for Bubble sort using array.
- 5. Write a program to create three nodes for a linked list and display the same.
- 6. Write a program to search for a key in the doubly linked list.
- 7. Write a program to check for valid parenthesis using stack. Only "("and ")" are allowed as input.
- 8. Create an empty queue, add three items, and remove 1 item. Print the queue at each step.
- 9. Write a program to reverse a String using Stack.
- 10. Write a program to swap every alternate pair in a doubly linked list.