Single Linked list Assignments

- 1. Write a program to create linked list and perform the following operations on linked list?
 - a. Inserting a node at beginning of the list
 - b. Inserting a node at the end of the list
 - c. Inserting a node at given position(index)
 - d. Inserting a node at before the given value
 - e. Inserting a node at after the given value
 - f. Inserting a node at middle of the list
- 2. Write a program to create linked list and perform the following operations on the linked list?
 - a. Deleting a given node
 - b. Deleting the first node in the list
 - c. Deleting the last node in the list
 - d. Deleting the before given value node
 - e. Deleting the after given value node
 - f. Deleting the given position node(index)
 - g. Deleting the middle element in the list
- 3. Write a program to Traverse (print) the list of elements?
- 4. Write a program to print the elements of the list in reversal order?
- 5. Write a program to reverse the list with using recursion?
- 6. Write a program to reverse the list without using recursion?
- 7. Write a program to print length of the list?
- 8. Write a program to search the element in the list?
- 9. Write a program to print frequency of given element in the list?
- 10. Write a program to print all pairs in the list if the pair wise sum is equal to given value?
- 11. Write a program to sort the elements in the list?
- 12. Write a program to print middle element in the list?
- 13. Write a program to print minimum, maximum element in the given list?
- 14. Write a program to print sum and average of the all the nodes in the list?
- 15. Write a program to print the student details using linked list?
- 16. Write a program to print topper details in particular subject using linked list?
- 17. Write a program to check whether the given list is palindrome or not?(Eg:1->2->1)
- 18. Write a program to check list is string palindrome? Take each char as node?(Eg: m->a->d->a->m)
- 19. Write a program to print alternative nodes in the list?
- 20. Write a program to print prime numbers in the list?
- 21. Write a program to print the even sum and odd sum of the given list?
- 22. Write a program to print all distinct elements count in the list?
- 23. Write a program to find the Kth node from the end in a singly linked list?
- 24. Write a program to swap adjacent elements in the list?
- 25. Write a program to take words in the node and sort them in dictionary order?
- 26. Write a program to print elements of the list in reverse order from given element in the list?
- 27. Write a program to merge the two linked lists?
- 28. Write a program to delete the duplicate nodes in the from the sorted list?
- 29. Write a program to print intersection of two nodes at the beginning list?
- 30. Write a program to print mean, median, mode of the list?
