

## Assignment-4

Design a recursive routine to

- 1) Implement the tower of Hanoi. Create a dummy class and place the recursive routine there.
- 2) Implement the pow function( $\text{pow}(a,n)$  = power of a raise to the power n). Hint: Can use divide and conquer.
- 3) Sum of elements in a linked list.
- 4) Insert into an ordered linked list.

Remember : A linked list is a node followed by another linked list, or is null.

Optional:

- 1) Reverse a linked list recursively.
- 2) Merge two linked lists recursively.