

Data Structures (IT205)
(July-November, 2011):
Assignment 1
Due: 6th September, 2012

1. Write a procedure for encoding an arbitrary rooted ordered tree as a binary tree in the Left-Child Right-Sibling scheme.
Also write a routine to decode it and recover the original tree.
2. Write routines to implement in-order, pre-order and post-order tree traversals. Also implement level-order traversals, and zig-zag traversals.
3. Write a routine for recovering the parent, left-child and right child of a node in a binary heap.