**Graduate Deficiency Course CS5590**

**Advanced data structures/analysis of algorithms**

**Assignment - 2**

**Due: April 10th, 2016 11.59PM**

1. Write a C or C++ program in order to implement the Binary search tree traversal using this following expression.

(a + b \* c) + ((d \* e + f) \* g)

1. Insert the following sequence of elements into an AVL tree, starting with an empty:

9, 27, 50, 15, 2, 21, 18, 32, 44, 28 and 36. Clearly show the tree that results after each insertion, and make clear any rotations that must be performed. Write an algorithm to explain your rotations.