



**Arab Academy for Science and Technology and Maritime
Transport**
College of Computing and Information Technology

Course Title : Data Structures
Lecturer : Dr. Yasser El-Sonbaty

Course Code: CS212



Sheet # (5): Binary Search Trees

Write the appropriate algorithms to perform the following:

1. Insert an element in a BST.
2. Count the number of nodes in a BST.
3. Get the sum of all elements in a BST.
4. Get the smallest element in a BST.
5. Make a copy of a BST.
6. Check if two trees are identical.
7. Reverse a tree into its mirror.
8. Delete an element from a BST.
9. Test if a tree is complete.
10. Get the depth of a node.
11. Check if two trees are mirrors.