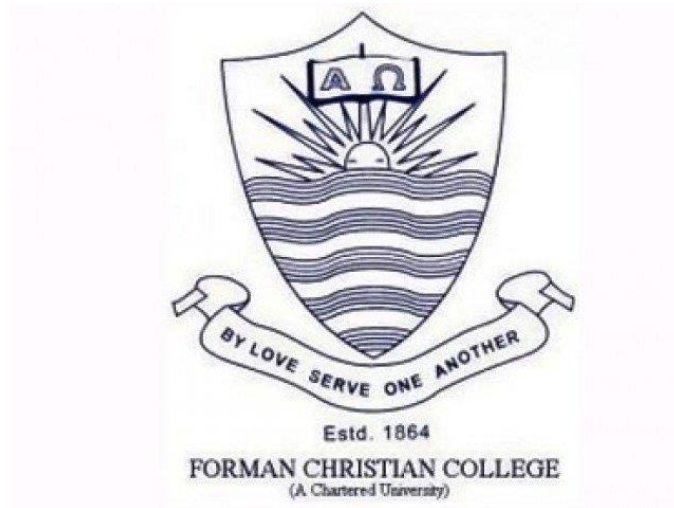


Data Structures and Algorithms

Comp 200

Fall 2022



Department of Computer Science
Forman Christian College University

Lab 10

Binary Search Tree

In Lab Problems

Question 1:

Create a class **BST** using the class **BSTNode** having **key**, **data**, **left**, and **right** data fields. The class **BST** should have the data field **root** of type **BSTNode** and size. It should implement the following methods:

<i>id</i>	<i>Method</i>	<i>Comments</i>
1	__init__(self)	Initialize the BST
2	insert(self, key)	Insert data into BST
3	Delete(self, key)	Delete the data from BST
4	Search(self, key)	Search the data and return BSTNode
5	Inorder(self)	Print the keys in inorder
6	Preorder(self)	Print the keys in preorder
7	Postorder(self)	Print the keys in postorder
9	GetParent(self, key)	Return the parent of the given key
10	Height(self)	Returns the height of the Tree