# **Apex College**

### **BCIS Program**

Affiliated to Pokhara University



Data Structure & Algorithms

Lab Report

12

Binary Seorch Tree

Date: 28-06-2022

#### Submitted by:

Ishwor Shrestha Roll no.: 2018-BCIS-414

#### Submitted to:

Pravakar Ghimire, & Anmol Shrestha Apex College



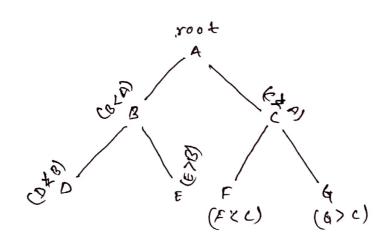
## #Lab 12 Objectives

- To understand Binary Search Tree (BST) and implement the various operations in BST,

## #Introduction

Binary Search Tree (BST) is a binary three that is either empty or in which every node contains a key (value) and satisfies the following conditions:

- DAII keys in the left sub-tree of root are smaller than key in toot node.
- 1 All keys in the right sub-tree of the root node are greater than the key in the root node
- 3) The left and right sub-trees of the root are again binary search trees.



The computational time taken by this tree is depends own the height of the tree i.e. logn (n=no a node)

.:. T. C > O(logn)