**American International University-Bangladesh**

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| **Course Title:** | Data Structure Lab | | | **Section:** | B |
| **Semester:** | Fall 2022-23 | **Term:** | Final | **Date:** | 14 December 2022 |
| **Type:** | Assignment-1 | **Duration:** | N/A | **Total Marks:** | 20 |
| **Student Name:** |  | | | **Student Id:** |  |

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| Part-A [Code Writing] | 20 |
| 1. Write a program to create a tree given below.    Fig: BST  Now do the following operation for the given tree.   1. Insert new node to the tree. 2. Delete node from the tree. 3. Find the level of a given node. For example, 13 is in level 4, 3 is in level 2. 4. Find only the parent of given two nodes. For example, if 4,7 given, parent is 6. If 1,13 is given, then no parent found. If 1,6 is given then parent is 3.   # Start writing here… | |