

Mark as done

Opened: Sunday, 15 May 2022, 5:00 PM

Due: Sunday, 15 May 2022, 7:00 PM

SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY ,Hinjewadi
Module End Lab Examination – Algo & DS

Course Name :- PG-DAC

Batch - March 2023

Date :- 15-5-2023

Duration :- 2 hours

Instructions :

1. Create new workspace (folder) by the name OS<digit PRN> in home directory
2. Create Project Lab_EXam and save it in above Folder.
3. You can use all necessary documents for help .

Questions:

Write a program to generate a Binary Search tree which is initially empty with key values 3.2, 1.5, 6.3, 9.8, 2.1, 5.7, 4.5, 7.4, 1.0. Show following options to the user and as per user choice perform the operations on BST continuously.

1. Print all leaf nodes in BST
2. Print all non leaf nodes in BST
3. Print count of all full nodes in BST
4. Print parent of user entered node in BST
5. Print childrens of user entered node in BST
6. Print all pairs of siblings in BST

Sr.No	Points to Cover	Max Marks
1	Create BST	7
2	All leaf nodes	5
3	All non leaf nodes	5
4	Count of full nodes	5
5	Parent of user entered node	4
6	Children's of user entered node	4
7	Print all siblings	7
8	Menu Driven	3
	Total	40

Submission status

Submission status	This assignment does not require you to submit anything online
Grading status	Not graded
Time remaining	The due date for this assignment has now passed
Last modified	-

Submission comments

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