**Assignment – 5**

**Complete the lab work on the following problem on or before 15th November,2023**

1. Implement a binary search tree(BST), data are user input.

- Insert a data as node

- Traverse data nodes in preorder, inorder, postorder

- Search a data

- Delete a data

- having zero child node

- having one child node

- having two child node

2. Using Recursion -

a) Factorial of a number

b) Fibonacci sequence

c) Ackermann Function

3. Implement Tower of Hanoi problem using recursion.

4. Implement Tower of Hanoi problem without recursion, using stack.

5. Implement a AVL tree, data are user input. Implement its insert, delete and search operation.

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