**Data Structures and Algorithms**

**Lab 11**

**Submitted To:**

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**Submitted By:**

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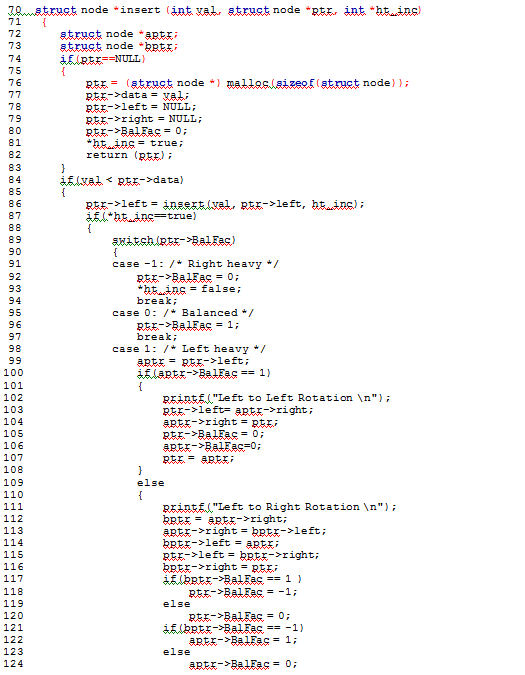
FA18-BCE-074

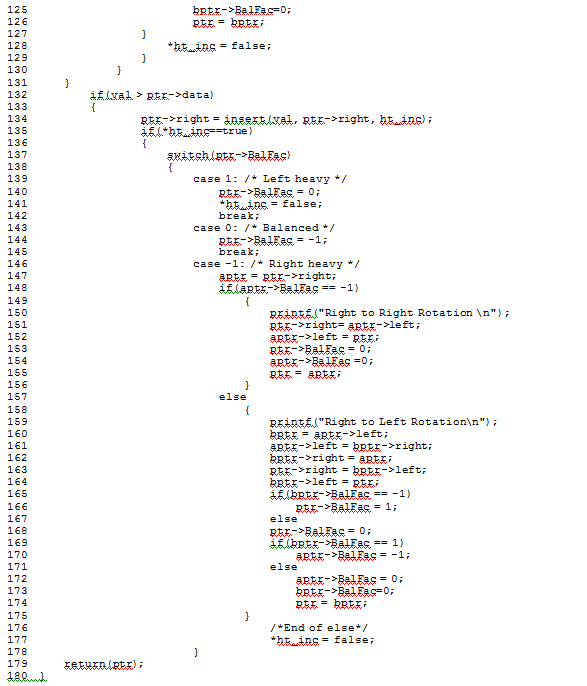
**In Lab:**

**Task 1:**

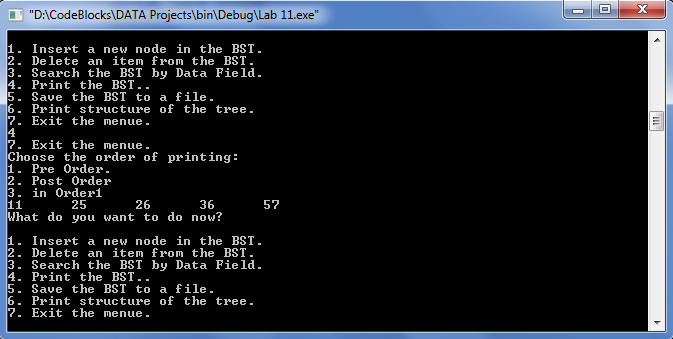
***Modify the insert function to incorporate AVL insertion.***

**Program:** In this program, function ***“insert”*** inserts nodes into the BST through AVL approach i.e. maintaining balance of BST.





**Output:**

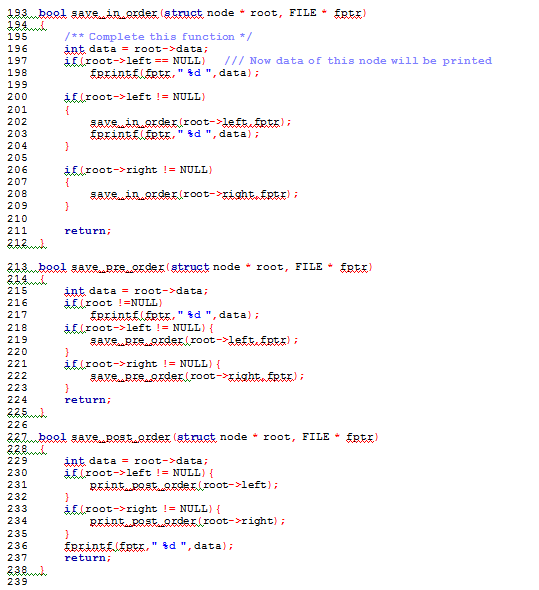


**Post Lab:**

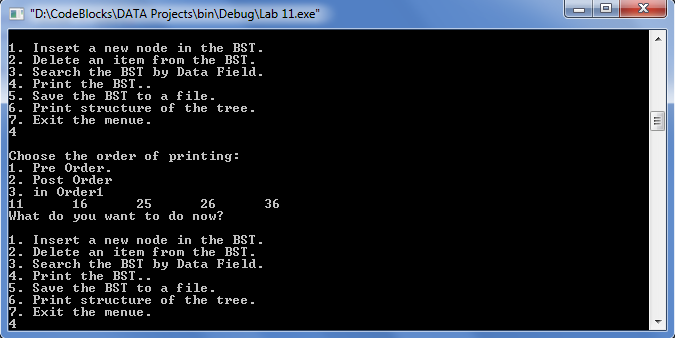
**Task 1:**

***Save the Tree data to a file (In-Order, Pre-Order and Post-Order).***

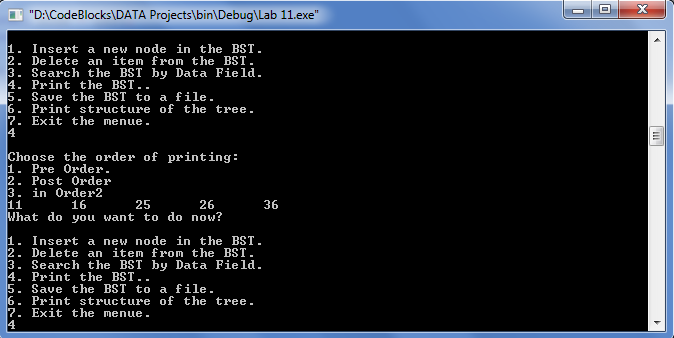
**Program:** Code is as follows:



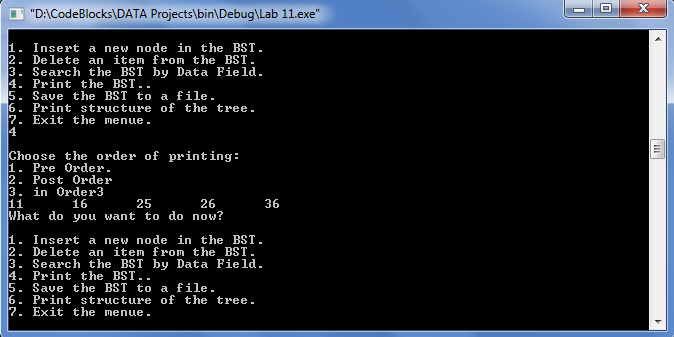
**Output:**



***Pre-Order***



***Post-Order***

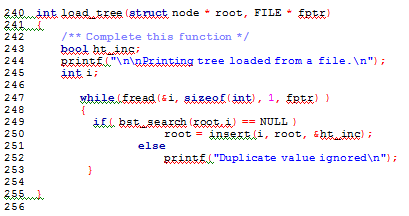


***In-Order***

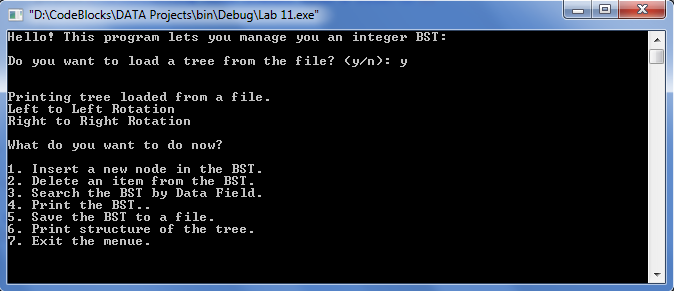
**Task 2:**

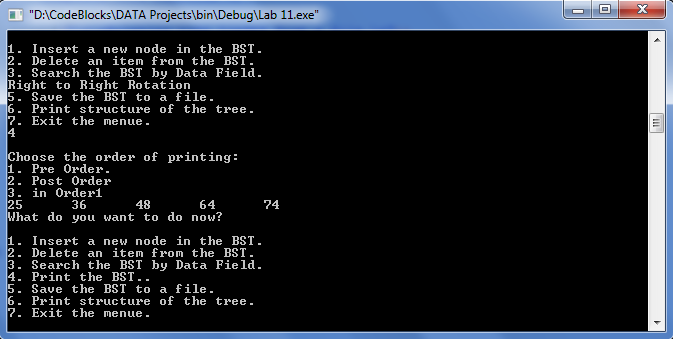
***Load tree from a file containing numbers.***

**Program:** Code is as follows:



**Output:**





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**THE END**