Assignment 03

Data Structures (CS-2001)

Fall 2021

Assignment instructions

1. **Plagiarism is strictly prohibited.**

Write a java program to construct an English Dictionary using Binary Search Tree. It should contain the following functionalities:

1. This program must store words with letter strings and their respective meanings
2. You have to create an English dictionary for more than 100 words.
3. After making the Dictionary tree, the program should retrieve and print the meaning of a queried word.
4. If a user wants to delete any word from a tree your program should delete that word from the dictionary and balanced the tree if needed.
5. The Dictionary tree should be balanced at the same time.
6. Use file handling and save elements of tree in a file in pre-order/post-order/in-order and make a function start () which inserts all elements from file to BST as you open the program.
7. For checking this assignment, I will provide my file to evaluate the effectiveness of your program. So, it must be generalizable.