Data Structures and Algorithms

HOMEWORK 5 REPORT

RUNNING COMMANDS AND RESULTS

tree form

```
root
    2021
        CSE102
            LECTURE1
    2022
        CSE321
            LECTURE1
            LECTURE2
    2023
        CSE222
            LECTURE1
                PROBLEM1
                PROBLEM2
        CSE232
            LECTURE1
            LECTURE2
                PROBLEM1
                PROBLEM2
            LECTURE3
```
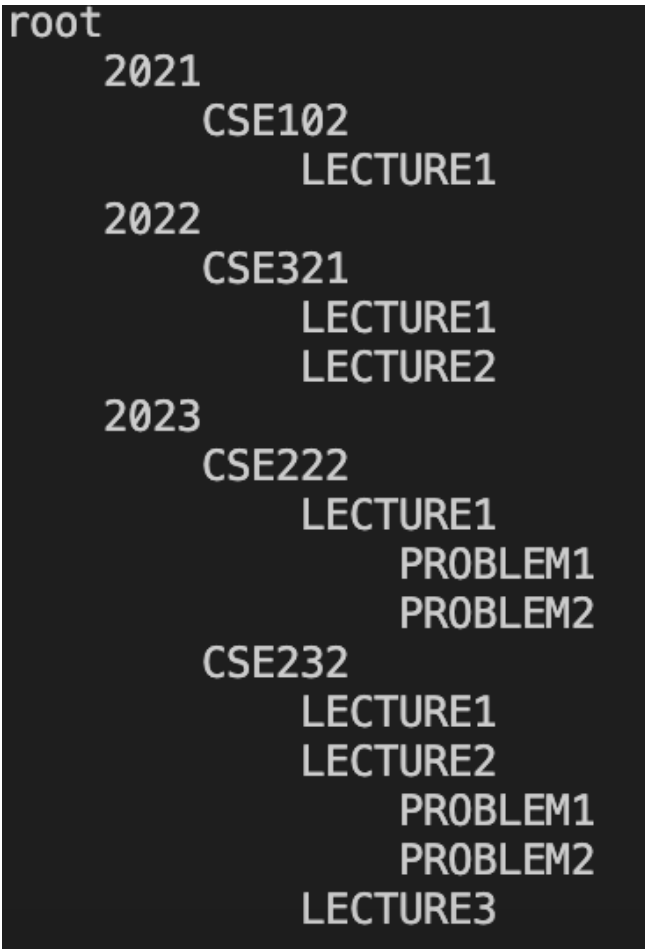
FUNCTIONS

Tree(): this function is constructor of Tree class. it constructs 2d array, children array and root string.

addChild (String node): this function adds child nodes to their parents node and checks if txt file includes more than one same nodes, it ignores and adds remaining nodes to first read node.

makeTree (Tree obj): this function converts "treeArr" list to tree structure.

readFile(): the function that reads from "tree.txt", removes then parses ';' character and it storages elements to "treeArr" list.

main(String[] args): this is a main function that operates necessary functions.