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package com.LockedMe;
import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
public class UserFile implements FileAPI {
    * Method Name:addFile
    * this method add a file in the root directory if it is not present
     * @param (String) fileName i.e file name to be added
     * @return boolean
    @Override
    public boolean addFile(String fileName) {
        boolean isFileCreated = false;
        try {
            File file = getDirectoryPath(fileName);
            if (isFileCreated = file.createNewFile()) {
                System.out.println("File "+file.getName()+ " successfully got
created!\n");
            } else {
                System.out.println("File "+file.getName()+ " already
exists!!\n");
        } catch (IOException e) {
            System.out.println("An error occured\n\n");
            e.printStackTrace();
        return isFileCreated;
    }
    /*
    * Method Name:searchFile
     * this method searches for a file in the root directory
     * @param (String) fileToBeSearched i.e file name to be searched
     * @return void
    @Override
   public void searchFile (String fileToBeSearched) {
        File file = getDirectoryPath(fileToBeSearched);
        String[] fileList = getDirectoryPath().list();
        for (String tempFileName: fileList) {
            if (tempFileName.equals(fileToBeSearched+".txt")) {
                System.out.println("Successfully found the file " + "'" +
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file.getName() + "'\n");
                return ;
        System.out.println("Requested file "+ fileToBeSearched +" is not
found\n");
    }
    * Method Name:deleteFile
    * this method deletes a file in the root directory if it exists
     * @param (String) fileToDelete i.e file name to be deleted
     * @return void
    @Override
    public void deleteFile (String fileToDelete) {
        File file = getDirectoryPath(fileToDelete);
        String[] fileList = getDirectoryPath().list();
        for (String tempFileName: fileList) {
            if (tempFileName.equals(fileToDelete+".txt")) {
                if (file.delete()) {
                    System.out.println("File: " + "'" +file.getName() + "' "+"got
deleted\n");
                    return;
                }
            }
        System.out.println("Specified file: "+"'"+fileToDelete+"'"+" not
found\n");
    }
    //Returns File object with root directory+fileName
    private static File getDirectoryPath(String fileName) {
        String directoryPath = System.getProperty("user.dir")+"\\root\\";
        fileName+=".txt";
       File file = new File(directoryPath+fileName);
        return file;
    //Returns File object with root directory.
    private static File getDirectoryPath(){
        String directoryPath = System.getProperty("user.dir")+"\\root\\";
        File file = new File(directoryPath);
        return file;
    // lists the files in ascending order
    public static void listFilesInAsc() {
        // Add files to this fileList
        List<String> fileList = new ArrayList<>();
        File file = getDirectoryPath();
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System.out.println("Path Directory:"+file.toPath()+"\n");
String a[] =file.list();
if (a.length>=1){
    for (String fileName:a) {
        fileList.add(fileName);
    }
    Collections.sort(fileList);
    System.out.println("Here is the list of files");
    for (String s:fileList) {
        System.out.println(s);
    }
} else {
    System.out.println("The specified directory is empty please add a file\n");
}
```