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package com;
import java.util.*;
import java.io.*;
public class LockCompany {
    // Retrieving the file names in an ascending order
    public static void listingFile() {
        File file = new File("D:\\Simplilearn Harsha
Project\\phases\\Locker Directory");
        file.mkdir();
        if(file.isDirectory()) {
            List<String> listFile = Arrays.asList(file.list());
            // sorting the file in ascending order
            Collections.sort(listFile);
            System.out.println("-----
-----");
            System.out.println("These are files. Sorting by file_name
in ascending order");
            // Iterator interface and method 1. way for traversing
the list
            Iterator itr = listFile.iterator();
            while(itr.hasNext()) {
                System.out.println(itr.next());
            }
            // this is just for knowlegde
            // 2. way for traversing the list is foreach method
            // for(String s:listFile) {
            // System.out.println(s);
            // }
        }else {
            System.out.println(file.getAbsolutePath()+" not found");
        }
        LockCompany.mainMenu();
    }
    // add a file method or create file
    public static void createFile() {
        File fileDir = new File("D:\\Simplilearn Harsha
Project\\phases\\Locker Directory");
        // make a directory
        fileDir.mkdir();
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the File Name :");
        String fileName = scan.nextLine();
        File file = new File("D:\\Simplilearn Harsha
Project\\phases\\Locker Directory\\"+fileName+".txt");
        try {
            if(file.createNewFile()) {
                System.out.println("File
"+file.getName()+" is created successfully.");
                fileBusinessOperation();
            }else {
                System.out.println("File
"+file.getName()+" is already exists.");
                fileBusinessOperation();
            }
        }catch(Exception e) {
            System.out.println(e);
        }
    }
    // delete a file method
    public static void deleteMethod() {
        Scanner scan = new Scanner(System.in);

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        System.out.println("Enter the file name which you want to
delete :");
        String fileName = scan.nextLine();
        File file = new File("D:\\Simplilearn Harsha
Project\\phases\\Locker Directory\\"+fileName+".txt");
        try {
            if(file.delete()) {
                System.out.println("File
"+file.getName()+" is deleted successfully");
                fileBusinessOperation();
            }else {
                System.out.println("File
"+file.getName()+" is already deleted");
                fileBusinessOperation();
            }
        }catch(Exception e) {
            System.out.println(e);
        }
    }
    // search a file method
    public static void searchMethod() {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the file name which you want to
search :");
        String fileName = scan.nextLine();
        File file = new File("D:\\Simplilearn Harsha
Project\\phases\\Locker Directory\\"+fileName+".txt");
        try {
            if(file.exists()) {
                System.out.println("File
"+file.getName()+" is Found successfully.");
                System.out.println("Location of file is
"+file.getAbsolutePath());
                fileBusinessOperation();
            }else {
                System.out.println("File
"+file.getName()+" does not exists.");
                fileBusinessOperation();
            }
        }catch(Exception e) {
            System.out.println(e);
        }
    }
    // Display welcome Screen details such as Application Name &
Developer Name
    public static void welcomeScreen() {
        System.out.println("*****
*****");
        System.out.println("Welcome to Lockers Pvt. Ltd.");
        System.out.println("LockedMe.com");
        System.out.println("Developed by SriHarsha");

        System.out.println("*****
*****");
    }
    // Generic features and three operations
    public static void mainMenu() {
        System.out.println("Please select one of the following");
        System.out.println("1. The current file names in ascending
order");
    }

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        System.out.println("2. Business-level operations(Add, Delete
Search)");
        System.out.println("3. ↵ Close Application");
        Scanner scan = new Scanner(System.in);
        while(true) {
            try {
                int option = scan.nextInt();
                switch(option) {
                    case 1:
                        // System.out.println("These are file names
in ascending order");
                        listingFile();
                        break;
                    case 2:
                        LockCompany.fileBusinessOperation();
                        break;
                    case 3:
                        System.out.println("Have a nice day!! Thanks
for Using LockedMe.com");
                        System.out.println("Application
Closed Successfully");
                        System.exit(option);
                        break;
                    default:
                        System.out.println("Oops! You Enter the
Wrong Numner!");
                        System.out.println("Please Enter the
Valid Number");
                        break;
                }
            } catch (Exception e) {
                System.out.println("Oops!! Please Enter the valid
number");
                System.out.println(e);
            }
        }
        // Business-level operations
        public static void fileBusinessOperation() {
            System.out.println("Please select one of the following");
            System.out.println("1. Add a File");
            System.out.println("2. Delete a File");
            System.out.println("3. Search a File");
            System.out.println("4. ↵ MAIN MENU");
            Scanner scan2 = new Scanner(System.in);
            while(true) {
                try {
                    int choice = scan2.nextInt();
                    switch(choice) {
                        case 1:
                            System.out.println("You have selected the add
file option");
                            createFile();
                            break;
                        case 2:
                            System.out.println("You have selected the
delete file option");
                            deleteMethod();
                            break;
                        case 3:

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        System.out.println("You have selected the
search file option");
        searchMethod();
        break;
    case 4:
        System.out.println("Go to the Main Menu");
        // main(null);
        mainMenu();
        break ;
    default:
        System.out.println("Enter the Valid Number");
        break;
    }
} catch (Exception e) {
    System.out.println("Enter the Valid Number");
}
}

public static void main(String[] args) {
    // TODO Auto-generated method stub
    // there are two ways for calling a method
    // 1. class_name.method_name or
    // LockerCompany.welcomeScreen();
    // 2. method_name only
    welcomeScreen();
    LockCompany.mainMenu();
}
}

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