

Source Code

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package virtualkey.project01;

import java.util.*;
import java.io.*;

public class LockerCompany {

    // Retrieving the file names in an ascending order
    public static void listingFile() {
        File file = new File("D:\\1.Simplilearn\\Simplilearn Project\\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 knowledge
            // 2. way for traversing the list is foreach method
            // for(String s:listFile) {
            //     System.out.println(s);
            // }
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//          }
    }else {
        System.out.println(file.getAbsolutePath()+" not found");
    }
    LockerCompany.mainMenu();
}

// add a file method or create file
public static void createFile() {
    File fileDir = new File("D:\\1.Simplilearn\\Simplilearn Project\\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:\\1.Simplilearn\\Simplilearn Project\\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);
    }
}
}

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// delete a file method
public static void deleteMethod() {
    Scanner scan = new Scanner(System.in);
    System.out.println("Enter the file name which you want to delete :");
    String fileName = scan.nextLine();
    File file = new File("D:\\1.Simplilearn\\Simplilearn Project\\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);
    }
}

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// 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:\\1.Simplilearn\\Simplilearn Project\\Locker
Directory\\"+fileName+".txt");
    try {
        if(file.exists()) {
            System.out.println("File "+file.getName()+" is Found successfully.");
        }
    }
}

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        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 Pawan Kumar");

    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");
    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 {

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        int option = scan.nextInt();

        switch(option) {
        case 1:
            //          System.out.println("These are file names in ascending order");
            listingFile();
            break;
        case 2:
            LockerCompany.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

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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:
                    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:

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        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();
    LockerCompany.mainMenu();
}

}

```