package com.fileoperations;  
  
public class FileOperationsMain {  
  
 public static void main(String[] args) {  
  
 FileOperations.*createMainFolderIfNotPresent*("main");  
  
 MenuOptions.*printWelcomeScreen*();  
  
 }  
}

package com.fileoperations;  
  
import java.util.Scanner;  
  
public class HandleOptions {  
  
 public static void welcomeScreenOptions() {  
 boolean running = true;  
 Scanner sc = new Scanner(System.*in*);  
 do {  
 try {  
 MenuOptions.*displayMenu*();  
 int input = sc.nextInt();  
  
 switch (input) {  
 case 1:  
 FileOperations.*displayAllFiles*("main");  
 break;  
 case 2:  
 HandleOptions.*handleFileMenuOptions*();  
 break;  
 case 3:  
 System.*out*.println("Program exited successfully");  
 running = false;  
 sc.close();  
 System.*exit*(0);  
 break;  
 default:  
 System.*out*.println("Please select a valid option");  
 }  
 } catch (Exception e) {  
 System.*out*.println(e.getClass().getName());  
 *welcomeScreenOptions*();  
 }  
 } while (running == true);  
 }  
  
 public static void handleFileMenuOptions() {  
 boolean running = true;  
 Scanner sc = new Scanner(System.*in*);  
 do {  
 try {  
 MenuOptions.*displayFileMenuOptions*();  
 FileOperations.*createMainFolderIfNotPresent*("main");  
  
 int input = sc.nextInt();  
 switch (input) {  
 case 1:  
 System.*out*.println("Enter the name of the file");  
 String fileToAdd = sc.next();  
  
 FileOperations.*createFile*(fileToAdd);  
 break;  
 case 2:  
 System.*out*.println("Enter the name of the file to be deleted from \"main\" folder");  
 String fileToDelete = sc.next();  
  
 FileOperations.*createMainFolderIfNotPresent*("main");  
 FileOperations.*deleteFile*("main", fileToDelete);  
  
 break;  
 case 3:  
 System.*out*.println("Enter the name of the file to be searched from \"main\" folder");  
 String fileName = sc.next();  
  
 FileOperations.*createMainFolderIfNotPresent*("main");  
 FileOperations.*searchFile*("main", fileName);  
 break;  
 case 4:  
 return;  
 case 5:  
 System.*out*.println("Program exited successfully.");  
 running = false;  
 sc.close();  
 System.*exit*(0);  
 default:  
 System.*out*.println("Please select a valid option from above.");  
 }  
 } catch (Exception e) {  
 System.*out*.println(e.getClass().getName());  
 *handleFileMenuOptions*();  
 }  
 } while (running == true);  
 }  
}

package com.fileoperations;  
  
public class MenuOptions {  
  
 public static void printWelcomeScreen() {  
 System.*out*.println("Welcome Locked.me Java FSD Project which is developed by Elif!");  
 *displayMenu*();  
 HandleOptions.*welcomeScreenOptions*();  
  
 }  
  
 public static void displayMenu() {  
 String menu = "\n\n Select any option number from below and press enter\n\n"  
 + "1) Retrieve all files inside \"main\" folder\n" + "2) Display menu for file operations\n"  
 + "3) Exit program\n";  
 System.*out*.println(menu);  
  
 }  
 public static void displayFileMenuOptions() {  
 String fileMenu = "\n\n Select any option number from below and press enter\n\n"  
 + "1) Add a file to \"main\" folder\n" + "2) Delete a file from \"main\" folder\n"  
 + "3) Search for a file from \"main\" folder\n" + "4) Show previous menu\n" + "5) Exit program\n";  
  
 System.*out*.println(fileMenu);  
 }  
}

package com.fileoperations;  
  
import java.io.File;  
import java.io.IOException;  
import java.nio.file.Files;  
import java.nio.file.Path;  
import java.nio.file.Paths;  
import java.util.Arrays;  
import java.util.Collections;  
import java.util.List;  
  
public class FileOperations {  
  
 public static void createMainFolderIfNotPresent(String folderName) {  
 File file = new File(folderName);  
  
 if (!file.exists()) {  
 file.mkdirs();  
 }  
 }  
  
 public static void displayAllFiles(String path) {  
 File dir = new File(path);  
 File[] files = dir.listFiles();  
 List<File> filesList = Arrays.*asList*(files);  
  
 Collections.*sort*(filesList);  
  
 for (File file : filesList) {  
 System.*out*.println("File name: " + file.getName());  
 }  
  
 }  
  
 public static void createFile(String fileToAdd) {  
 FileOperations.*createMainFolderIfNotPresent*("main");  
 Path path = Paths.*get*("./main/" + fileToAdd);  
  
 try {  
 Path p = Files.*createFile*(path);  
 System.*out*.println("File created at path: " + p);  
 } catch (IOException e) {  
 e.printStackTrace();  
 }  
  
 }  
  
 public static void searchFile(String path, String fileName) {  
  
 File dir = new File(path);  
 File[] files = dir.listFiles();  
 List<File> filesList = Arrays.*asList*(files);  
 boolean fileFound = false;  
  
 if (files != null && files.length > 0) {  
 for (File file : filesList) {  
  
 if (file.getName().equals(fileName)) {  
 fileFound = true;  
 System.*out*.println(file + " founded at path " + file.getAbsolutePath());  
 }  
 }  
 }  
 if(!fileFound) {  
 System.*out*.println("File not found, please give correct file name");  
 }  
  
  
 }  
  
 public static void deleteFile(String path, String fileName) {  
  
 File dir = new File(path);  
 File[] files = dir.listFiles();  
 List<File> filesList = Arrays.*asList*(files);  
  
 if (files != null && files.length > 0) {  
 for (File file : filesList) {  
  
 if (file.getName().equals(fileName)) {  
 if (file.delete()) {  
 System.*out*.println(file + " deleted successfully");  
 } else {  
 System.*out*.println("Failed to delete " + file);  
 }  
 }  
 }  
 }  
  
 }  
}