Main Program:

File Operation:

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ch Project Run Window Help
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° □ 🔐 BugFix,java 🗓 LockedMeMain,java 🗓 FileOperations,java × 🗓 HandleOptions,java 🗓 MenuOptions,java
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            1
20 import java.io.File;
3 import java.io.TOException;
4 import java.nio.file.Files;
5 import java.nio.file.Fath;
6 import java.nio.file.Paths;
7 import java.nio.file.Paths;
8 import java.util.Arrays;
9 import java.util.Arrays;
10 import java.util.Collections;
10 import java.util.Scammer;
11 import java.util.stream.Collectors;
12 import java.util.stream.IntStream;
14
           public static void createMainFolderIfNotPresent(String folderName) {
   File file = new File(folderName);
                               // If file doesn't exist, create the main folder
if (!file.exists()) {
   file.mkdirs();
                        public static void displayAllFiles(String path) {
    FileOperations.createWainFolderIfNotPresent("main");
    // All required files and folders inside "main" folder relative to current
    // folder
                               System.out.println("Displaying all files with directory structure in ascending order\n");
                              // listFilesInDirectory displays files along with folder structure List<String> filesListNames = FileOperations.listFilesInDirectory(path, 0, new ArrayList<String>());
                              System.out.println("Displaying all files in ascending order\n");
Collections.sort(filestistNames);
                              filesListNames.stream().forEach(System.out;:println);
                        public static List<String> listFilesInDirectory(String path, int indentationCount, List<String> fileListNames) {
                               File dir = new File(path);
File[] files = dir.listFiles();
List<File> filesList = Arrays.aslist(files);
                              Collections.sort(filesList);
                              if (files != null && files.length > 0) {
   for (File file : filesList) {
                                          System.out.print(" ".repeat(indentationCount " 2));
```

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□ 🗿 BugFix.java

☑ LockedMeMain,java ☑ FileOperations,java × ☑ HandleOptions,java ☑ MenuOptions,java
         System.out.print(" ".repeat(indentationCount " 2));
                                        if (file.isDirectory()) {
    System.out.println("'-- " + file.getName());
                                        // Recursively indent and display the files
fileListNames.add(file.getName());
    ListFilesInDirectory(file.getAbsolutePath(), indentationCount + 1, fileListNames);
} else {
                                               ise {
System.out.println("|-- " + file.getName());
fileListNames.add(file.getName());
                           } else {
   System.out.print(" ".repeat(indentationCount * 2));
   System.out.println("|-- Empty Directory");
                            System.out.println();
return fileListNames;
                     public static void createFile(String fileToAdd, Scanner sc) {
   FileOperations.createMainFolderIfMotPresent("main");
   Path pathToFile = Paths.get("./main/" + fileToAdd);
                            Files.createFile(pathToFile);
System.aut.println(fileToAdd + " created successfully");
                                  sc.nextLine();
if (choice.equals("y")) {
   System.out.println("\n\nInput content and press enter\n");
   String content = sc.nextLine();
   Files.write(pathToFile, content.getBytes());
   System.out.println("\Content written to file " + fileToAdd);
   System.out.println("Content can be read using Notepad or Notepad++");
                            } catch (IOException e) {
    System.out.println("Failed to create file " + fileToAdd);
    System.out.println(e.getClass().getName());
                      public static List(String) displayFileLocations(String fileName, String path) {
       🖹 Problems 🌸 Javadoc 🚇 Declaration 👨 Console 🗵
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BugFix.java

☑ LockedMeMain,java ☑ FileOperations,java × ☑ HandleOptions,java ☑ MenuOptions,java
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                 public static void searchFileRecursively(String path, String fileName, List<String> fileListNames) {
   File dir = new File(path);
   File[] files = dir.listFiles();
   List<File> filesList = Arrays.astist(files);
117 118 119 129 129 120 121 122 123 124 125 126 127 128 139 131 134 135 136 139 146 141 145 146 147 148 149 156 151 155 156 157 158 159 166 161 162 163 164 165 }
                         if (files != mull && files.length > 0) {
   for (File file : filesList) {
                                          if (file.getName().startsWith(fileName)) {
    fileListNames.add(file.getAbsolutePath());
                                         // Need to search in directories separately to ensure all files of required
// fileName are searched
if (file.isDirectory()) {
    searchFileRecursively(file.getAbsolutePath(), fileName, fileListNames);
                        )
                 public static void deleteFileRecursively(String path) {
                         File currfile = new File(path);
File[] files = currfile.listFiles();
                         if (files != null && files.length > 0) {
  for (File file : files) {
                                         String fileName = file.getName() + " at " + file.getParent();
if (file.isOirectory()) {
    deleteFileRecursively(file.getAbsolutePath());
                                        if (file.delete()) {
   System.out.println(fileName + " deleted successfully");
} else {
   System.out.println("Failed to delete " + fileName);
                                }
                         String currFileName = currFile.getName() + " at " + currFile.getParent();
if (currFile.delete()) {
    System.out.println(currFileName + " deleted successfully");
                         } else {
   System.out.println("Failed to delete " + currfileName);
```

Handle Options:

```
🛃 BugFix.java 🔟 LockedMeMain.java 🔟 FileOperations.java 🔟 HandleOptions.java 🗴 🗓 MenuOptions.java
  20 import java.util.List;
3 import java.util.Scanner;
  switch (input) {
                     case 1:
    FileOperations.displayAllFiles("main");
    break;
                     case 2:
    HandleOptions.handleFileMenuOptions();
    break;
                     break;
default:
                          System.out.println("Please select a valid option from above.");
                 } catch (Exception e) {
   System.out.println(e.getClass().getName());
   hondleNetcomeScreenInput();
              } while (running == true);
          public static void handleFileMenuOptions() {
              boolean running = true;
Scanner sc = new Scanner(System.in);
do {
    try {
        MenuOptions.displayFileMenuOptions();
        FileOperations.createMainFolderIfNotPresent("main");
                     FileDmanations crantaFile/fileToAdd crit
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FileOperations.createMainFolderIfMatPresent("main");
List<String> filesToDelete = FileOperations.displayFileLocations(fileToDelete, "main");
      int idx = sc.nextInt();
                                           FileOperations.deleteFileRecursively(filesToDelete.get(idx - 1));
                                          // If idx == 0, delete all files displayed for the name
for (String path : filesToDelete) {
    FileOperations.deleteFileRecursively(path);
                                     break;
                               creat;
case 3:
// File/Folder Search
System.out.println("Enter the name of the file to be searched from \"main\" folder");
String fileName = sc.next();
                                     FileOperations.createMainFolderIfMatPresent("main");
FileOperations.displayFileLocations(fileName, "main");
                                     break;
                               break;
case 4:
    // Go to Previous menu
return;
case 5:
    // Exit
                                     // Exit
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());
   hondleFileMenuOptions();
                     } while (running == true);
```

Menu Options:

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Output:

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*** Select any option number from below and press Enter ***
1) Add a file to "main" folder
2) Delete a file from "main" folder
3) Search for a file from "main" folder
4) Show Previous Menu
5) Exit program
Enter the name of the file to be added to the "main" folder
padmajayadav created successfully
Would you like to add some content to the file? (Y/N)
Input content and press enter
hai
Content written to file padmajayadav
Content can be read using Notepad or Notepad++
*** Select any option number from below and press Enter ***

    Add a file to "main" folder
    Delete a file from "main" folder

3) Search for a file from "main" folder
4) Show Previous Menu
5) Exit program
Program exited successfully.
```