LockedMe – Virtual Key for Repositories

his project is hosted at https://github.com/KuldipShendge/LockedMe---Virtual-Key-for-Repositories

The project is developed by Kuldip Shendge

Core concepts used in project

Collections framework, File Handling, Sorting, Flow Control, Recursion, Exception Handling, Streams API

1.Source Code

1.1 Writing a program in Java for the entry point of the application (LockedMeMain.java)

1.2 Writing a program in Java to display Menu options available for the user (MenuOptions.java)

```
String appFunction = "You can use this application to :-
                                                                                    + "• Retrieve all file names in the \"main\"
folder\n"
                                                                                    + "• Search, add, or delete files in
\"main\" folder.\n"
                                                                                   + "\n**Please be careful to ensure the
correct filename is provided for searching or deleting files.**\n";
                                          System.out.println(companyDetails);
                                          System.out.println(appFunction);
OUTPUT:
 🛑 EclipseIDE - LockedMe/src/com/lockedme/MenuOptions.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Window Help</u>
  | Table | Ta
       □ Console ×
      LockedMeMain (1) [Java Application] C:\Users\kuldi\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (25-Feb-2022, 10:23:
      ****************
       ** Welcome to LockedMe.com.
** This application was developed by Kuldip Shendge.
       You can use this application to :-
       • Retrieve all file names in the "main" folder
       • Search, add, or delete files in "main" folder.
       **Please be careful to ensure the correct filename is provided for searching or deleting files.**
```

1.3 Writing method to display Initial Menu

OUTPUT:

```
***** Select any option number from below and press Enter *****

1) Retrieve all files inside "main" folder

2) Display menu for File operations

3) Exit program
```

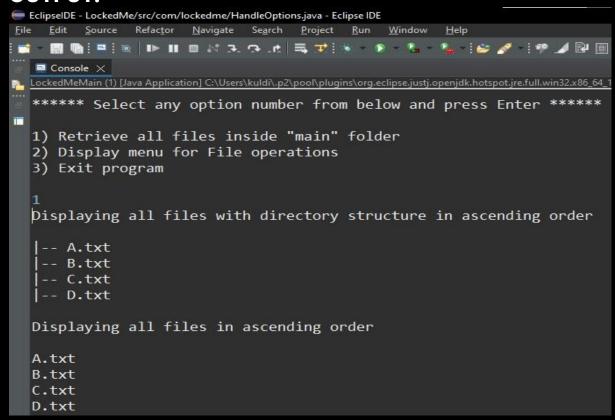
1.4 Writing method to display Secondary Menu for File Operations

1.5 Writing method to handle user input in initial Menu

5) Exit program

```
public static void handleWelcomeScreenInput() {
           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.");
```

OUTPUT:



1.6 Writing method to handle user input in Secondary Menu for File Operations

```
FileOperations.createMainFolderIfNotPresent("main");
                        int input = sc.nextInt();
                        switch (input) {
                        case 1:
                              // File Add
                              System.out.println("Enter the name of
the file to be added to the \"main\" folder");
                              String fileToAdd = sc.next();
                              FileOperations.createFile(fileToAdd,
sc);
                              break;
                        case 2:
                              // File/Folder delete
                              System.out.println("Enter the name of
the file to be deleted from \"main\" folder");
                              String fileToDelete = sc.next();
      FileOperations.createMainFolderIfNotPresent("main");
                              List<String> filesToDelete =
FileOperations.displayFileLocations(fileToDelete, "main");
                              String deletionPrompt = "\nSelect
index of which file to delete?"
                                          + "\n(Enter 0 if you want
to delete all elements)";
                              System.out.println(deletionPrompt);
                              int idx = sc.nextInt();
                              if (idx != 0) {
      FileOperations.deleteFileRecursively(filesToDelete.get(idx -
1));
                              } else {
                                    // If idx == 0, delete all files
displayed for the name
                                    for (String path : filesToDelete)
{
      FileOperations.deleteFileRecursively(path);
                                    }
                              }
                              break;
                        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.createMainFolderIfNotPresent("main");
      FileOperations.displayFileLocations(fileName, "main");
                              break;
                        case 4:
                              // Go to Previous menu
                              return;
                              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);
      }
```

OUTPUT:

