

## Source Code

```
package app.lockedme;

import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;

public class LockedMe {

    static boolean optionsAvaible;
    static boolean fileoptionsAvaible;

    public LockedMe() {

    }

    public static void main(String[] args) throws IOException {
        optionsAvaible = true;
        fileoptionsAvaible = true;
        showUserOptions();
    }

    public static void showUserOptions() {
        Scanner userIn = new Scanner(System.in);
        try {
            if (optionsAvaible == false) {
                System.out.println("Press enter to continue");
                try {
                    String keyPress = userIn.nextLine();
                    optionsAvaible = (keyPress != null) ? true :
false;
                } catch (Exception e) {
                    System.out.println(e);
                }
            }
            if (optionsAvaible == true) {

                System.out.println("*****");
                System.out.println("*****Locked
Me*****");
            }
        }
    }
}
```

```

System.out.println("*****" + "\n");
    System.out.println("1.List files in directory");
    System.out.println("2.File handling tools");
    System.out.println("3.Exit" + "\n");
    System.out.print("Enter your choice: ");
    try {
        int choice;
        choice = userIn.nextInt();
        LockedMe lm = new LockedMe();
        switch (choice) {
            case 1:
                System.out.println("Files in directory");
                optionsAvaivable = false;
                lm.listFilesInRoot();
                break;
            case 2:
                System.out.println("File handling tools");
                optionsAvaivable = false;
                fileoptionsAvaivable = true;
                LockedMe.showFileHandlingOptions();
                break;
            case 3:
                System.out.println("Exiting LockedMe");
                optionsAvaivable = false;
                System.exit(0);
                break;
            default:
                System.out.println("Please select the
given options");

                optionsAvaivable = true;
                LockedMe.showUserOptions();
        }
    } catch (Exception e) {
        System.out.println(e);
    }

}

} catch (Exception e) {
    System.out.println(e);
} finally {
    userIn.close();
}
}

```

```

public void listFilesInRoot() {
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the Root Directory's path: ");
    try {
        String directoryPath = scanner.nextLine();

        File folder = new File(directoryPath);

        if (folder.isDirectory()) {

            File[] fileList = folder.listFiles(File::isFile);
            File[] dirList = folder.listFiles(File::isDirectory);

            System.out.println("\nTotal number of files present in
the root directory: " + fileList.length);

            for (File file : fileList) {
                System.out.println(file.getName());
            }
            System.out.println("\n" + dirList.length + " Sub
directories found in the root directory ");
            for (File file : dirList) {
                System.out.println(file.getName());
                System.out.println("\nFiles in " + file.getName()
+ " directory: ");

                LockedMe dr = new LockedMe();
                dr.listFilesInDir(file.getAbsolutePath());
            }

            }
        showUserOptions();
    } catch (Exception e) {
        System.out.println(e);
    } finally {
        scanner.close();
    }
}

```

```

public void listAllFilesInDir(String directoryPath) {
    try {
        File folder = new File(directoryPath);

        if (folder.isDirectory()) {

            File[] fileList = folder.listFiles(File::isFile);
            File[] dirList = folder.listFiles(File::isDirectory);
            Arrays.sort(fileList);

            System.out.println("\nTotal number of files present in
the root directory: " + fileList.length);

            ArrayList<String> al = new ArrayList<String>();
            /*
            * Collections.sort method is sorting the elements of
ArrayList in ascending
            * order.
            */
            Collections.sort(al);
            for (File file : fileList) {
                al.add(file.getName());
            }
            Collections.sort(al);
            for (String fileName : al) {
                System.out.println(fileName);
            }
            System.out.println("\n" + dirList.length + " Sub
directories found in this directory ");
            for (File file : dirList) {
                System.out.println(file.getName());
                System.out.println("\nFiles in " + file.getName()
+ " directory: ");

                LockedMe dr = new LockedMe();
                dr.listAllFilesInDir(file.getAbsolutePath());
            }

        }
    } catch (Exception e) {
        System.out.println(e);
    }
}

```



```

        System.out.println("Search a user
specified file from the main directory");

        fileoptionsAvaiable = false;
        lm.searchFileFromRootDir();
        break;
    case 4:
        System.out.println("back to the main
menu");

        optionsAvaiable = true;
        LockedMe.showUserOptions();
    default:
        System.out.println("Please select the
given options");

        fileoptionsAvaiable = true;
        LockedMe.showFileHandlingOptions();
    }
} catch (Exception e) {
    System.out.println(e);
}

}
} catch (Exception e) {
    System.out.println(e);
} finally {
    userIn.close();
}
}

public void addFileToDir() {
    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the Directory path: ");
    try {
        String directoryPath = scanner.nextLine();

        File folder = new File(directoryPath);

        if (folder.isDirectory()) {

            File[] fileList = folder.listFiles(File::isFile);

            File[] dirList = folder.listFiles(File::isDirectory);

            System.out.println("\n" + fileList.length + " files present
in this folder");

```

```
        System.out.println("\n" + dirList.length + " Sub  
directories present in this folder");
```

```
        System.out.println("Enter the file name: ");  
        String filename = scanner.nextLine();  
        // Using file pointer creating the file.  
        File newfile = new File(folder, filename);  
  
        if (!newfile.exists()) {  
            newfile.createNewFile();  
        }  
    } else {  
        System.out.println("\n" + "Directory not found");  
    }  
    showFileHandlingOptions();  
} catch (Exception e) {  
    System.out.println(e);  
} finally {  
    scanner.close();  
}  
}
```

```
public void deleteFileFromDir() {  
    Scanner scanner = new Scanner(System.in);  
    System.out.println("Enter the Directory path: ");  
    try {  
        String directoryPath = scanner.nextLine();  
  
        File folder = new File(directoryPath);  
  
        if (folder.isDirectory()) {  
  
            File[] fileList = folder.listFiles(File::isFile);  
  
            File[] dirList = folder.listFiles(File::isDirectory);  
  
            System.out.println("\n" + fileList.length + " files present  
in this folder");  
  
            System.out.println("\n" + dirList.length + " Sub  
directories present in this folder");  
  
            System.out.println("List the files?(yes/no)");  
            String a = scanner.nextLine();  
            if (a.equals("yes") || a.equals("y")) {  
                for (File file : fileList) {
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        System.out.println(file.getName());
    }
}
System.out.println("\nEnter the name of file to be
deleted: ");

String filename = scanner.nextLine();
File todeletefile = new File(folder, filename);
if (todeletefile.exists() &&
filename.equals(todeletefile.getName())) { // not case sensitive

    if (todeletefile.delete()) {

        System.out.println(todeletefile.getName() + " deleted\n");
    } else {
        System.out.println("delete operation
failed");
    }
} else {
    System.out.println("File not found");
}
} else {
    System.out.println("\n" + "Directory not found");
}
showFileHandlingOptions();
} catch (Exception e) {
    System.out.println(e);
} finally {
    scanner.close();
}
}

```

```

public void searchFileFromRootDir() {

```

```

    Scanner scanner = new Scanner(System.in);
    System.out.println("Enter the Directory path: ");
    try {
        String directoryPath = scanner.nextLine();

        File folder = new File(directoryPath);

        if (folder.isDirectory()) {

            File[] fileList = folder.listFiles(File::isFile);

```



```

        File[] dirList = folder.listFiles(File::isDirectory);

        System.out.println("\n" + fileList.length + " files present
in this folder");

        System.out.println("\n" + dirList.length + " Sub
directories present in this folder");

        System.out.println("List the files?(yes/no)");
        String a = scanner.nextLine();
        if (a.equals("yes") || a.equals("y")) {
            for (File file : fileList) {
                System.out.println(file.getName());
            }
        }
        System.out.println("\nEnter the name of file to be
searched: ");

        String filename = scanner.nextLine();
        File tosearchfile = new File(folder, filename);
        if (tosearchfile.exists() &&
filename.equals(tosearchfile.getName())) { // not case sensitive
            System.out.println(tosearchfile.getName() + " is
available in the present directory.\n");

            System.out.println("Display the file? (yes/no)");
            String ans = scanner.nextLine();
            if (ans.equals("yes") || ans.equals("y")) {
                Scanner sc = new Scanner(tosearchfile);
                try {
                    while (sc.hasNextLine()) {

                        System.out.println(sc.nextLine());

                    }
                } catch (Exception e) {
                    System.out.println(e);
                } finally {
                    sc.close();
                }
            }
        } else {
            System.out.println("File not found");
        }
    } else {
        System.out.println("\n" + "Directory not found");
    }
}

```

```
        showFileHandlingOptions();
    } catch (Exception e) {
        System.out.println(e);
    } finally {
        scanner.close();
    }
}
}
```