

Final Specification Document

Project Name: LockedMe.com

Application name: LockedMeApplicationFull.java

Current version: 1.0

Developer details:

First Name: Ahmed

Last Name: Mouaki Benani Chebihat

Email: amouaki@gmail.com

Mobile: 00966-59-301-3177

Description of the application:

The user interacts with the application through the command line.

The user will be requested to choose an option by entering an Integer number.

Description of the Application: this application implements a File handling mechanism, where the user interacts with the application through command line. The capabilities of the application are summarized as following:

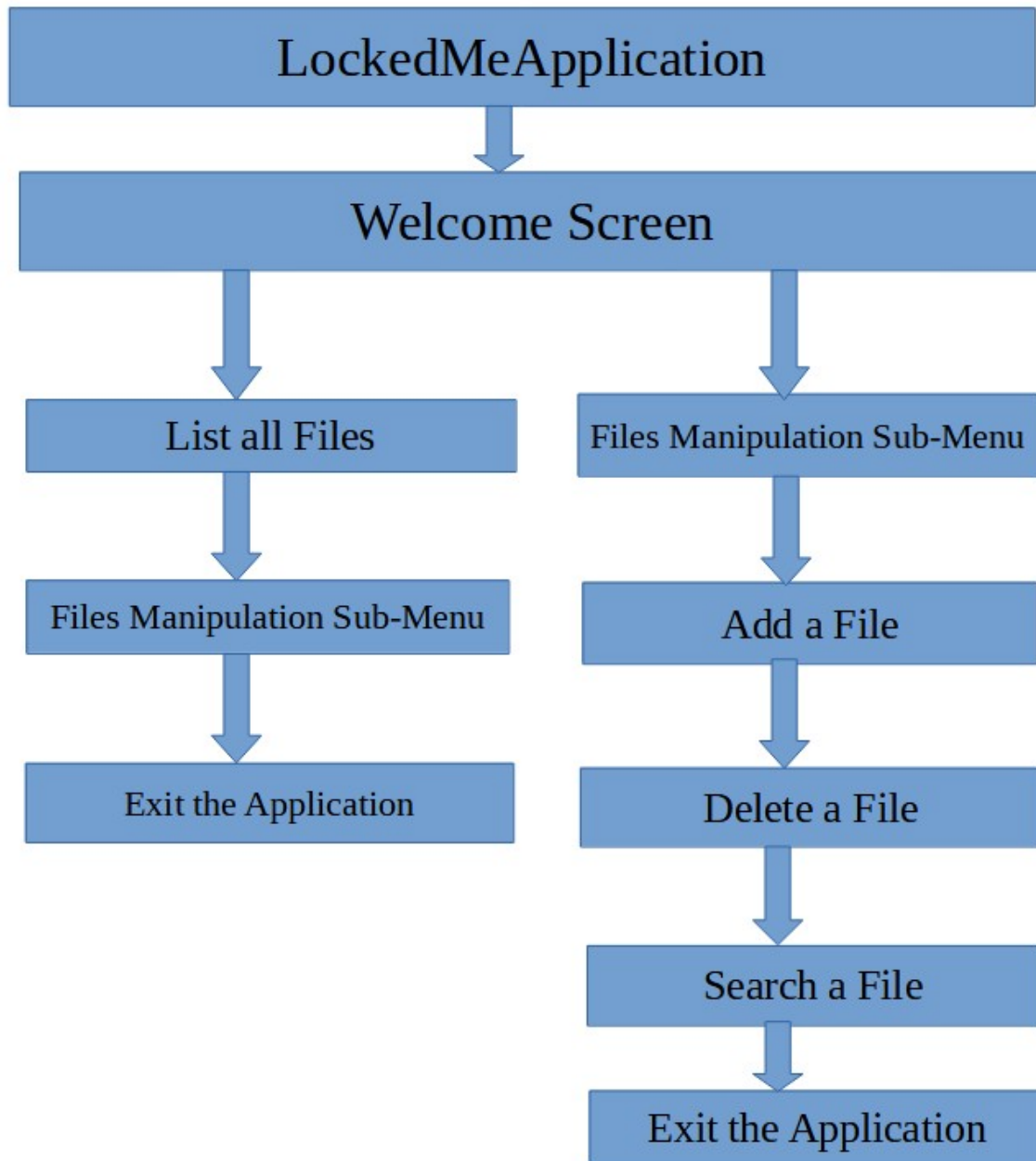
1. Displays a Welcome screen with the developer's details and the
2. Displays a main menu which consists of the following options:
3. Lists all the files and folder of the current directory
4. Provides an option to go to a sub-menu for file manipulation utilities
5. Provides an option to exit from the application

The Sub-menu provides the following files utilities:

1. Add a new file
2. Delete an existing file
3. Search for the existence of a file in the current directory
4. Provides an option to go back to the main menu
5. Provides an option to exit from the application

The interaction with the application is via command line. The user needs to choose an option by entering integer number as specified via the menu options.

Flow Char of the LockedMeApplicationFull:



SPRINT Planning and execution:

I have used three sprints in order to accomplish my project-1, and the descriptions of the sprints is as following:

SPRINT Planing and execution

SPRINT-1:

During this first sprint, I have planned and implemented three tasks which consist of the following:

1. Display a Welcome screen to the user
2. Display the Main Menu options (OPTION-1)
3. Display the Sub-Menu options (OPTION-2)

The names of the three methods are as following:

```
1. public static void welcomeScreen()  
  
2. public static void MainMenuOptions()  
3.  
4.  
5. public static void subMenuOptions()  
6.
```

SPRINT-2:

During this second sprint, I have planned and implemented two tasks, which delegate the tasks to the appropriate methods, and they consist of the following methods:

1. A method to delegate the execution of the tasks presented in the Main menu (Option-1) to the appropriate methods.
2. A method to delegate the execution of the tasks presented in the Sub-Menu (Option-2) to the appropriate methods.

The names of the three methods are as following:

```
public static void mainMenuTaskManager(int userSelectedOption)  
  
public static void subMenuTaskManager(int userSelectedOption)
```

SPRINT-3:

During this third sprint, I have planned and implemented four tasks, by adding features to the application, which allow the user to perform the following:

1. List all files and folder under the current directory
2. Add a new file
3. Delete an existing file
4. Search for a file

The names of the three methods are as following:

```
public static void directoryDisplayAscending()
```

```
public static void addFile()
```

```
public static void deleteFile()
```

```
public static void searchFile()
```

During the development of this project, I have implemented the following Java concepts and Algorithms:

- ArrayList
- Collections
- Sorting
- Linear Search
- Data Structures
- try-catch exception handling
- try-with-resources
- The File class
- The Scanner class
- The Switch statement
- The do-while loop
- The for loop
- The if-else condition

CONCLUSION:

I have build a robust and stable application as requested by my company, and it has all the required features. The application checks the user input, and does not exist the application in case, the has user entered an integer value outside of the required range, or has accidentally typed a non integer character from the keyboard, and the user can exit the application only if he.she selects the integer “0”.

I think that the application can be enhanced by including new features such as:

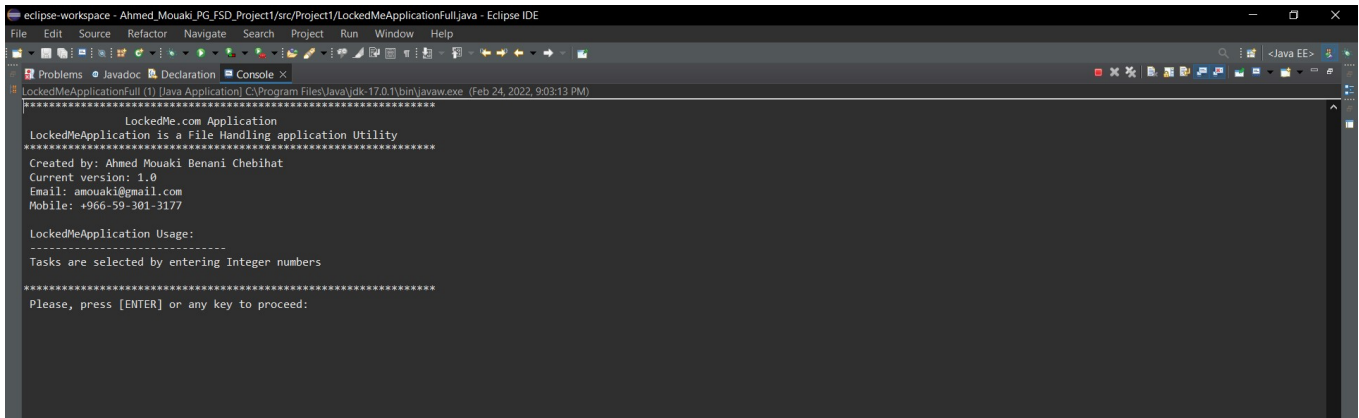
- Create a new Folder
- Delete an existing folder
- Switch to a specific folder
- Exit from the current folder
- Rename an existing file
- Rename an existing folder
- Add a text to an existing empty file
- Append a text to an existing file
- Create a copy of an existing file
- Display the content of an existing filename
- Sort the files and folders in descending order

Here is my PG-FSD Project–1 GitHub Repository link:

https://github.com/amouaki/PG_FSD_Project_1.git

Screenshots of the Application:

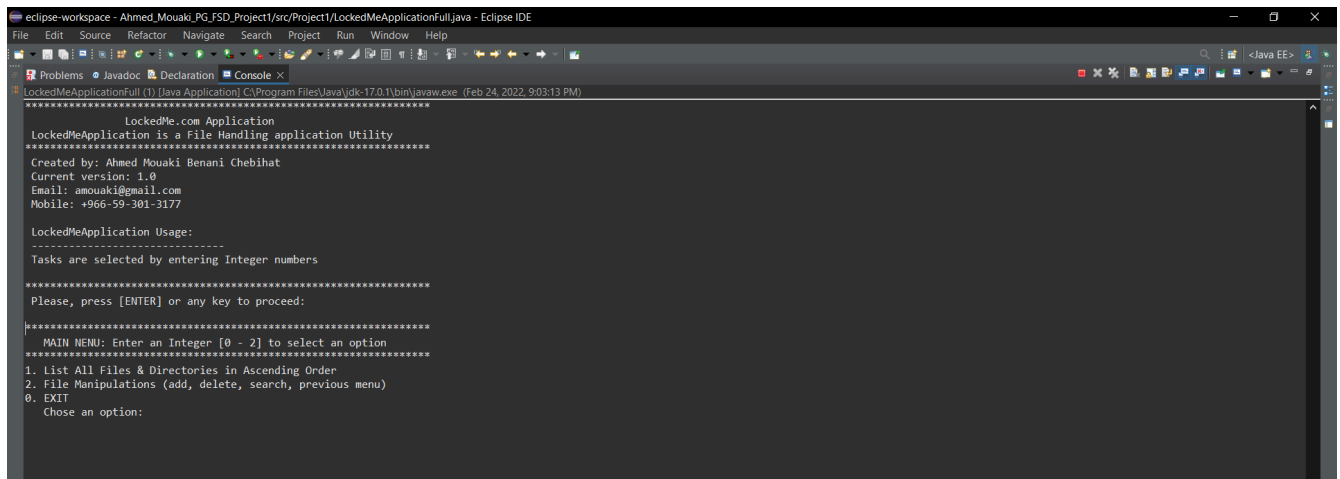
Fig1: Screenshot of the Welcome Screen message:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project/src/Project/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
*****
LockedMe.com Application
LockedMeApplication is a File Handling application Utility
*****
Created by: Ahmed Mouaki Benani Chebihat
Current version: 1.0
Email: amouaki@gmail.com
Mobile: +966-59-301-3177

LockedMeApplication Usage:
-----
Tasks are selected by entering Integer numbers
*****
Please, press [ENTER] or any key to proceed:
```

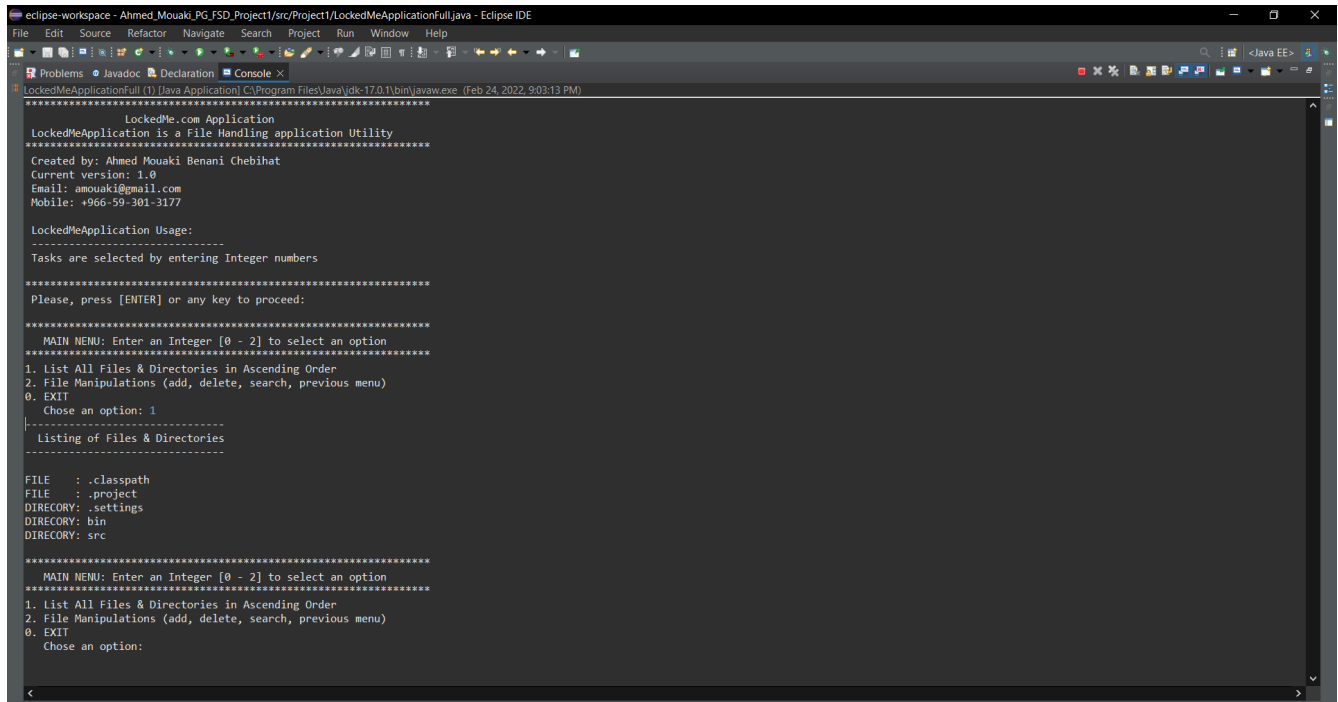
Fig-2: Screenshot of the Main Menu options:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project/src/Project/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
*****
LockedMe.com Application
LockedMeApplication is a File Handling application Utility
*****
Created by: Ahmed Mouaki Benani Chebihat
Current version: 1.0
Email: amouaki@gmail.com
Mobile: +966-59-301-3177

LockedMeApplication Usage:
-----
Tasks are selected by entering Integer numbers
*****
Please, press [ENTER] or any key to proceed:
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```

Fig-3: Screenshot of the Main Menu option-1: Listing of the files and folder of the current directory:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

*****
LockedMe.com Application
LockedMeApplication is a File Handling application Utility
*****
Created by: Ahmed Mouaki Benani Chebihat
Current versions: 1.0
Email: amouaki@gmail.com
Mobile: +966-59-301-3177

LockedMeApplication Usage:
-----
Tasks are selected by entering Integer numbers

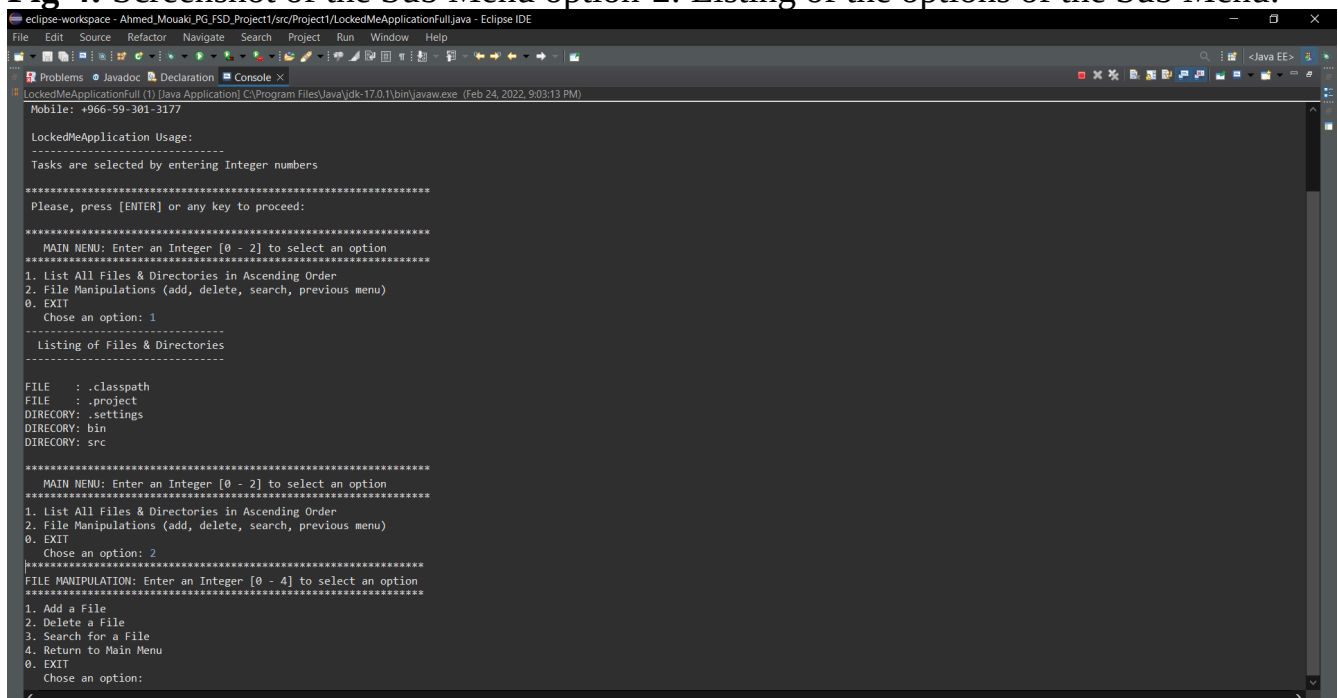
*****
Please, press [ENTER] or any key to proceed:

*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 1
-----
Listing of Files & Directories
-----

FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
DIRECORY: src

*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```

Fig-4: Screenshot of the Sub Menu option-2: Listing of the options of the Sub Menu:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

Mobile: +966-59-301-3177

LockedMeApplication Usage:
-----
Tasks are selected by entering Integer numbers

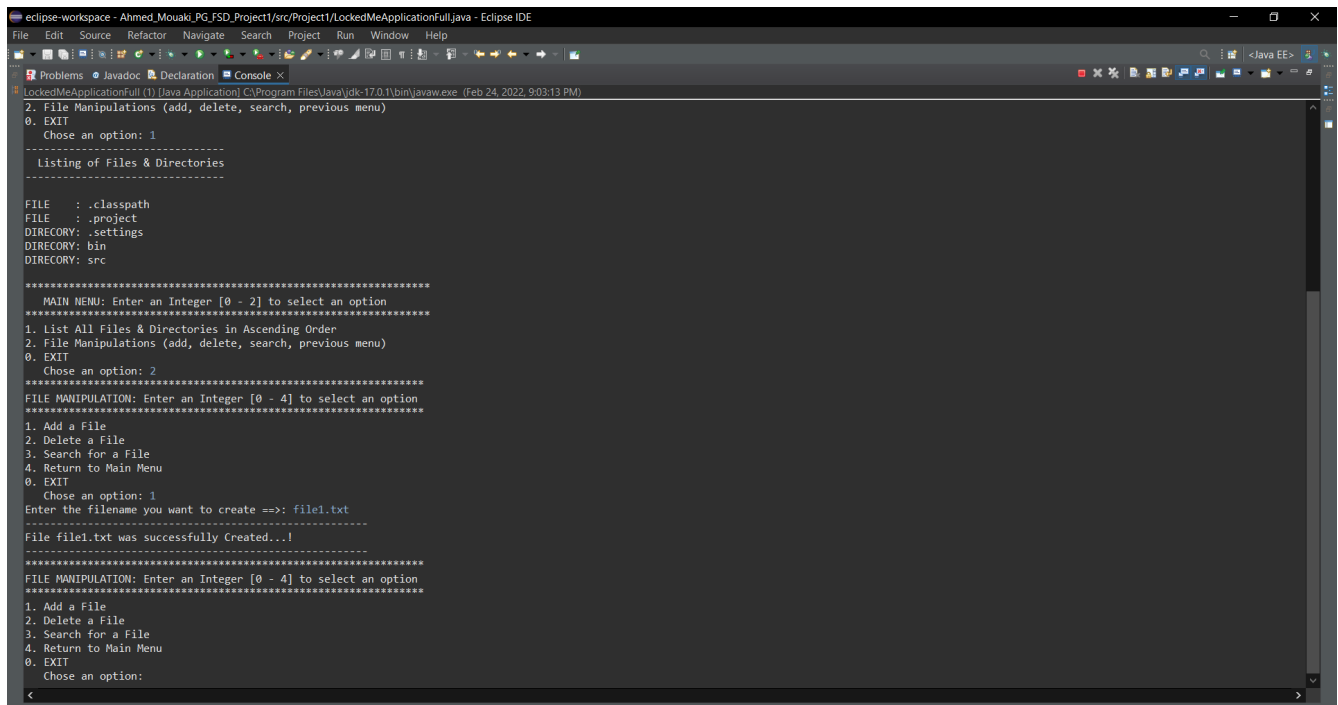
*****
Please, press [ENTER] or any key to proceed:

*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 1
-----
Listing of Files & Directories
-----

FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
DIRECORY: src

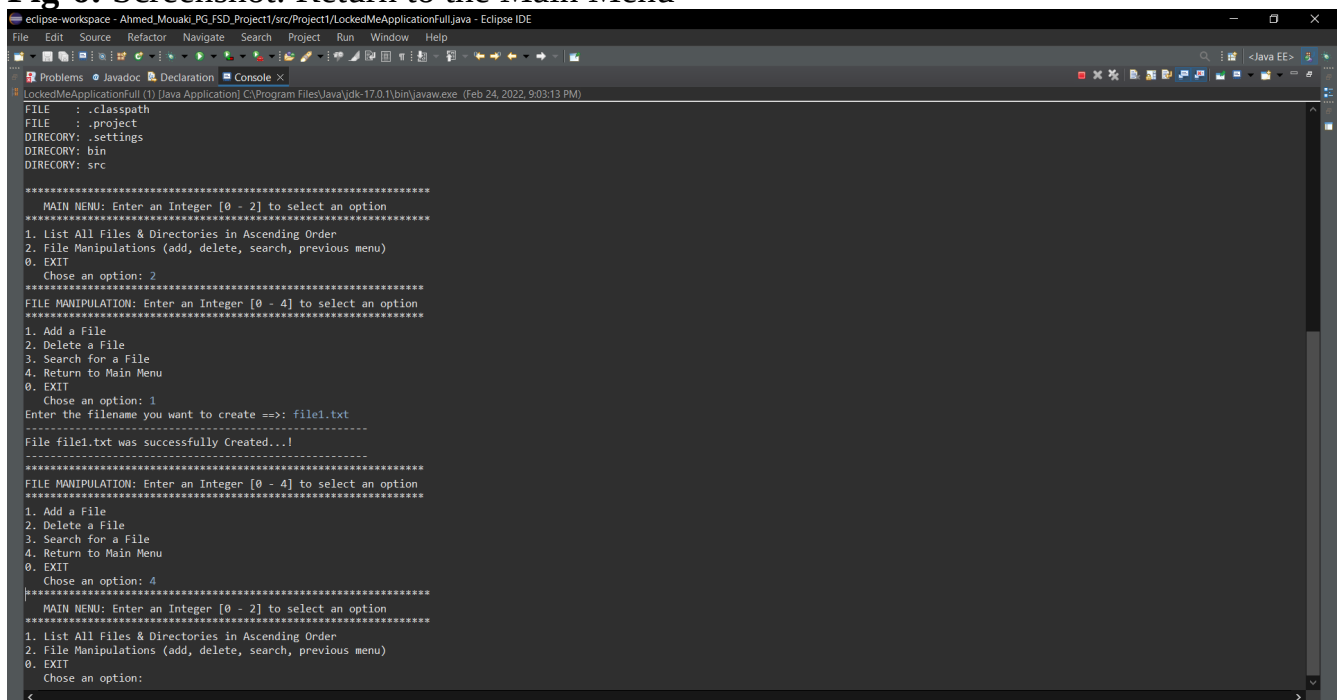
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
*****
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
*****
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option:
```

Fig-5: Screenshot: Adding a new file:



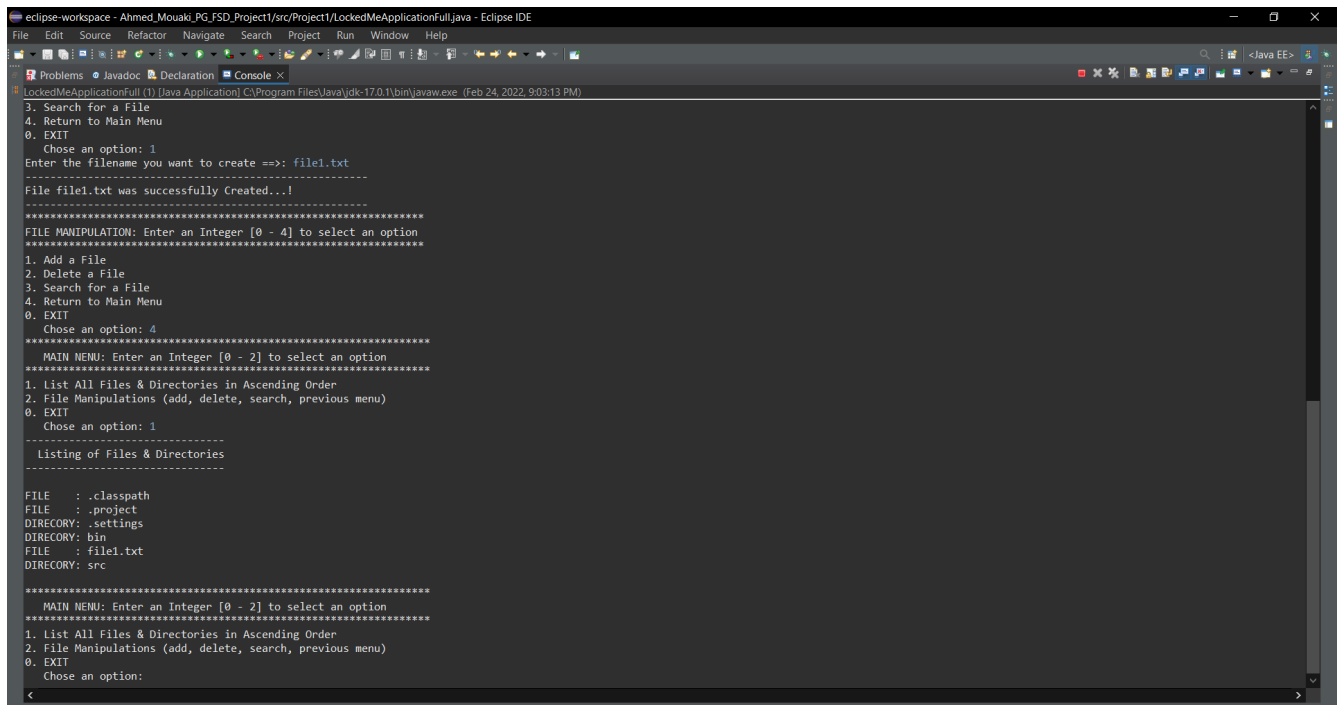
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1\src\Project1\LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console X
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 1
-----
Listing of Files & Directories
-----
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
DIRECORY: src
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 1
Enter the filename you want to create ==>: file1.txt
-----
File file1.txt was successfully Created...!
-----
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option:
```

Fig-6: Screenshot: Return to the Main Menu



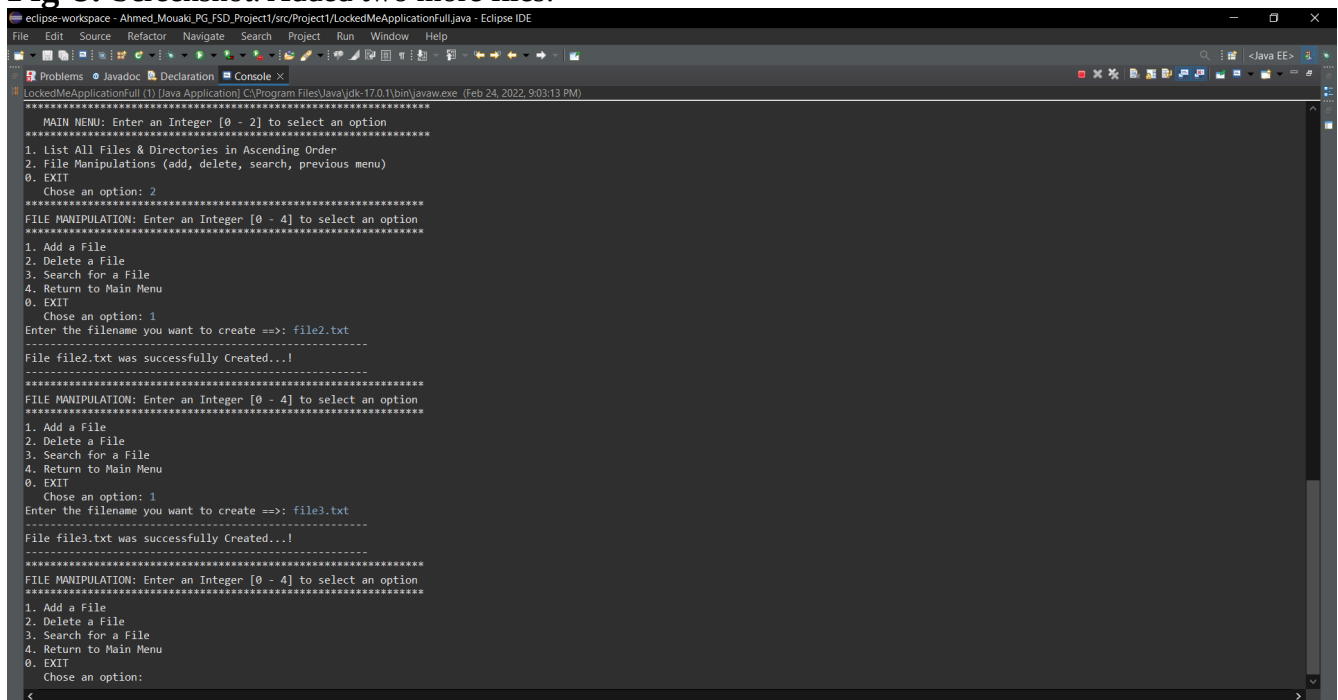
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1\src\Project1\LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console X
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
DIRECORY: src
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 1
Enter the filename you want to create ==>: file1.txt
-----
File file1.txt was successfully Created...!
-----
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 4
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```


Fig-7: Screenshot: List the files in order to see the newly added file:



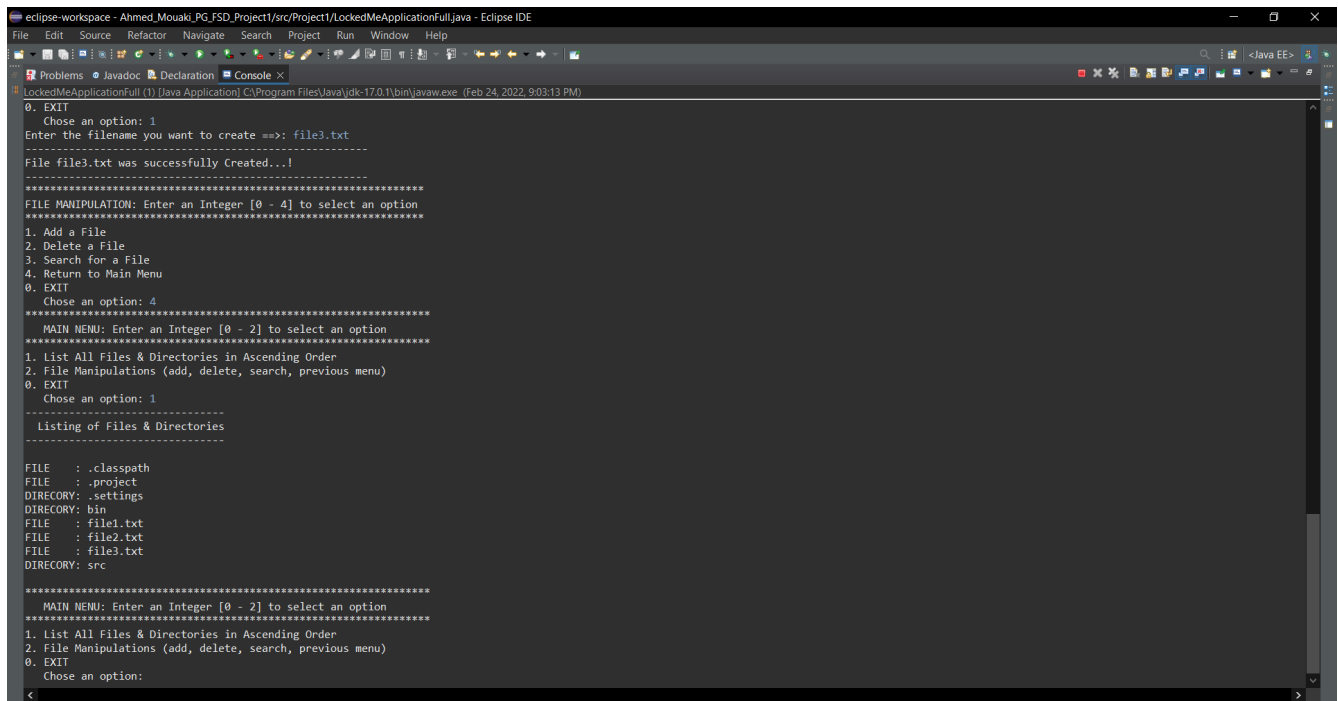
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console X
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 1
Enter the filename you want to create ==>: file1.txt
File file1.txt was successfully Created...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 4
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 1
-----
Listing of Files & Directories
-----
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
DIRECORY: src
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```

Fig-8: Screenshot: Added two more files:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console X
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 1
Enter the filename you want to create ==>: file2.txt
File file2.txt was successfully Created...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 1
Enter the filename you want to create ==>: file3.txt
File file3.txt was successfully Created...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option:
```

Fig-9: Screenshot: Return to the Main Menu, then, List all the files:

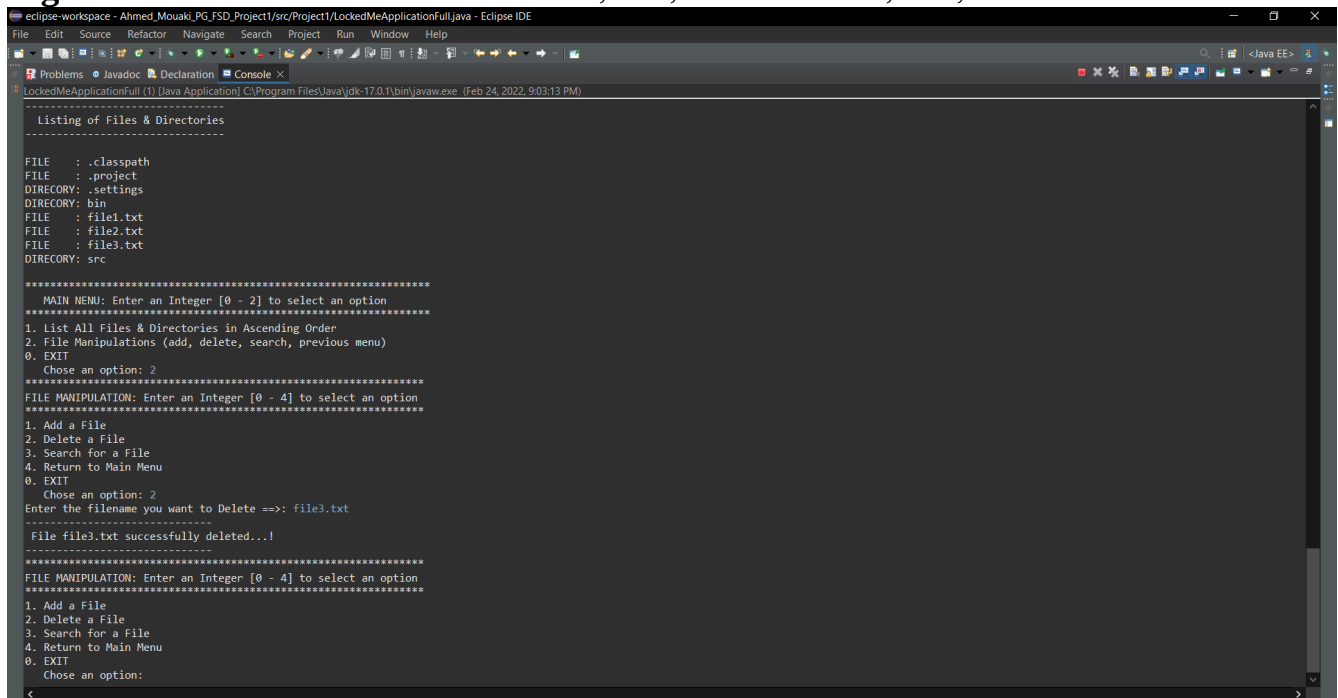


```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

0. EXIT
  Chose an option: 1
Enter the filename you want to create ==>: file3.txt
File file3.txt was successfully Created...!
-----
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
-----
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
  Chose an option: 4
-----
MAIN MENU: Enter an Integer [0 - 2] to select an option
-----
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
  Chose an option: 1
-----
Listing of Files & Directories
-----
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
FILE : file2.txt
FILE : file3.txt
DIRECORY: src

=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
  Chose an option:
```

Fig-10: Screenshot: Return to the Min Menu, then, List all the files, then, Delete file “file1.txt”

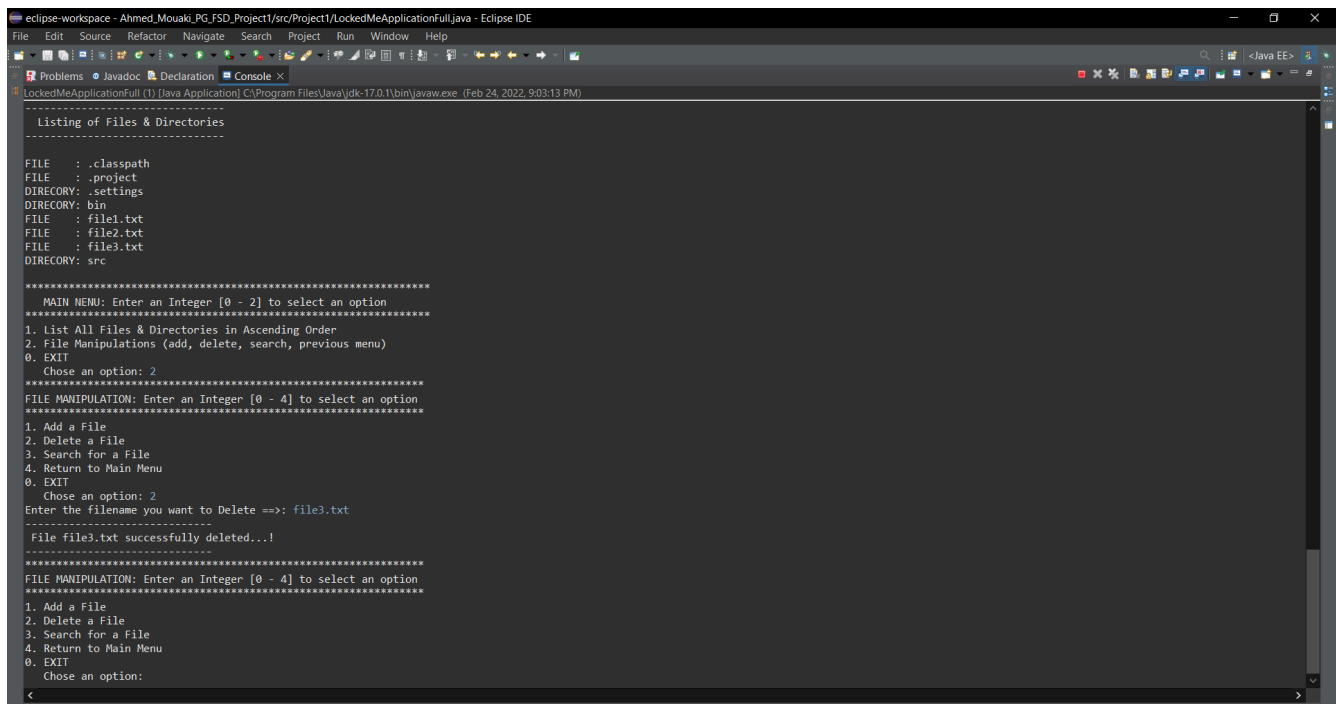


```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

-----
Listing of Files & Directories
-----
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
FILE : file2.txt
FILE : file3.txt
DIRECORY: src

=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
  Chose an option: 2
-----
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
-----
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
  Chose an option: 2
Enter the filename you want to Delete ==>: file3.txt
File file3.txt successfully deleted...!
-----
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
-----
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
  Chose an option:
```

Fig-11: Screenshot: Return to the Main Menu, then, Display the all the files in order to check whether the file “file3.txt” has been deleted.



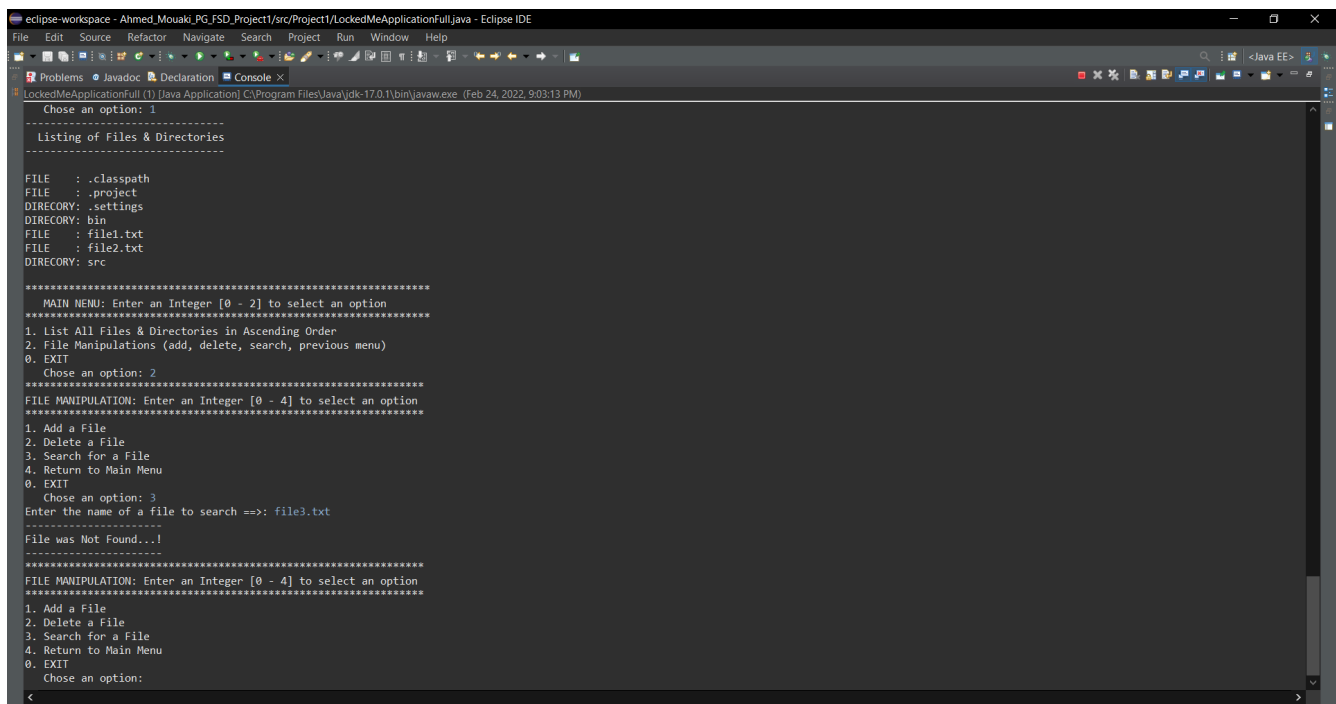
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

Listing of Files & Directories

FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
FILE : file2.txt
FILE : file3.txt
DIRECORY: src

=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a file
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 2
Enter the filename you want to Delete ==>: file3.txt
File file3.txt successfully deleted...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option:
```

Fig-12: Screenshot: Search for a non existing user specified filename:



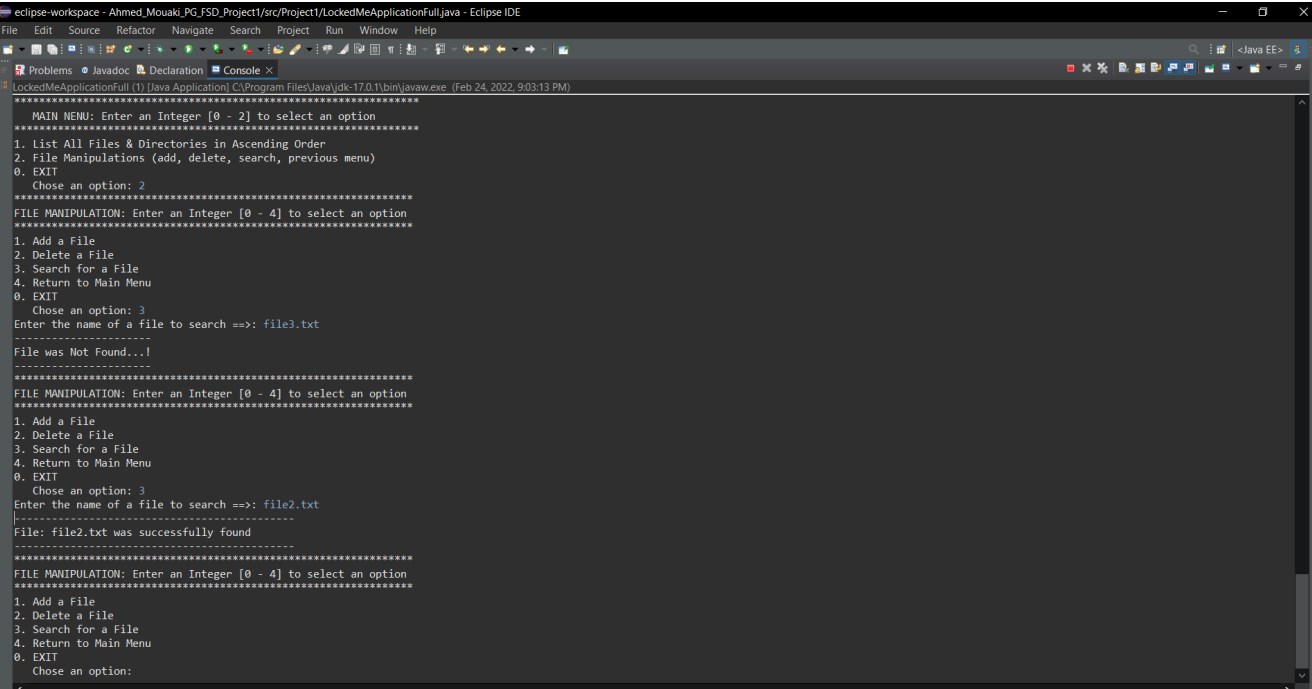
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)

Chose an option: 1
Listing of Files & Directories

FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
FILE : file2.txt
DIRECORY: src

=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 3
Enter the name of a file to search ==>: file3.txt
File was Not Found...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option:
```

Fig-13: Screenshot: Search for an existing user specified filename:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
Problems Javadoc Declaration Console
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
   Chose an option: 2
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option: 3
Enter the name of a file to search ==>: file3.txt
-----
File was Not Found...!
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option: 3
Enter the name of a file to search ==>: file2.txt
-----
File: file2.txt was successfully found
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option:
```

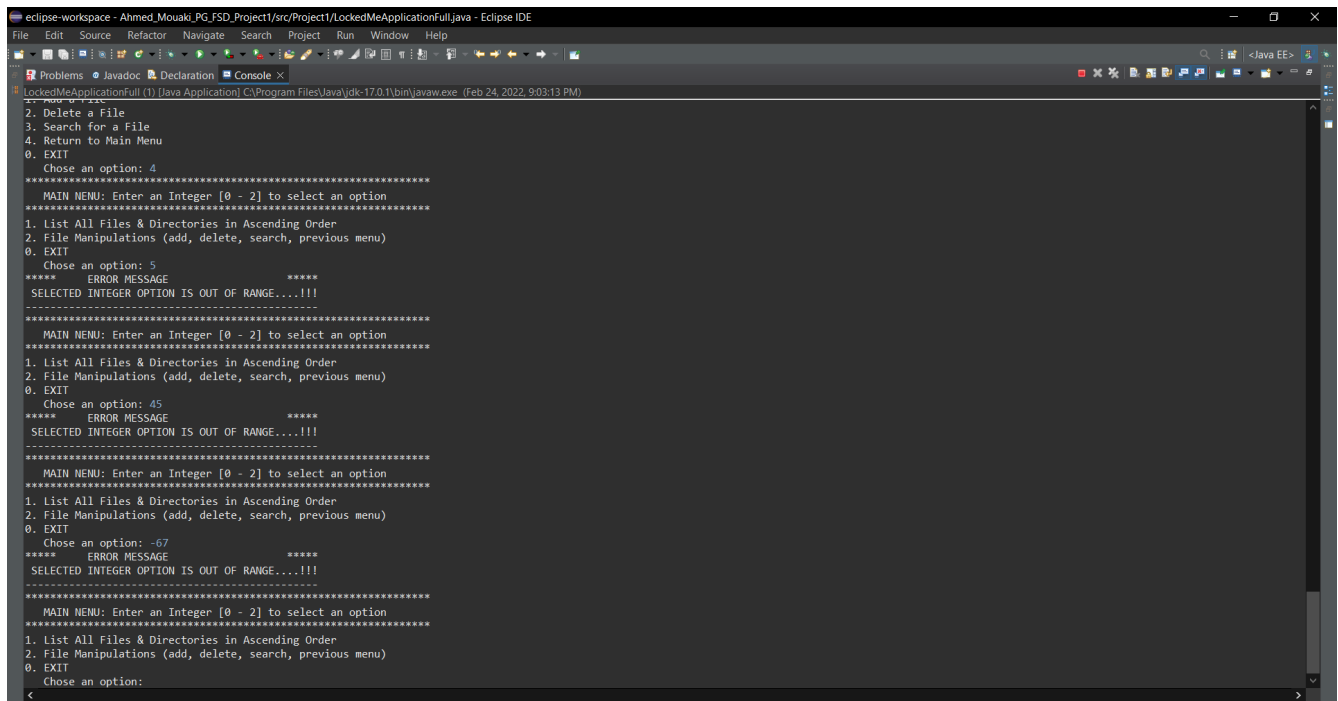
Fig-14: Screenshot: Return to the Main Menu:

```

=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option: 3
Enter the name of a file to search ==>: file3.txt
-----
File was Not Found...!
-----
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option: 3
Enter the name of a file to search ==>: file2.txt
-----
File: file2.txt was successfully found
-----
=====
FILE MANIPULATION: Enter an Integer [0 - 4] to select an option
=====
1. Add a File
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
   Chose an option: 4
=====
MAIN MENU: Enter an Integer [0 - 2] to select an option
=====
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
   Chose an option:

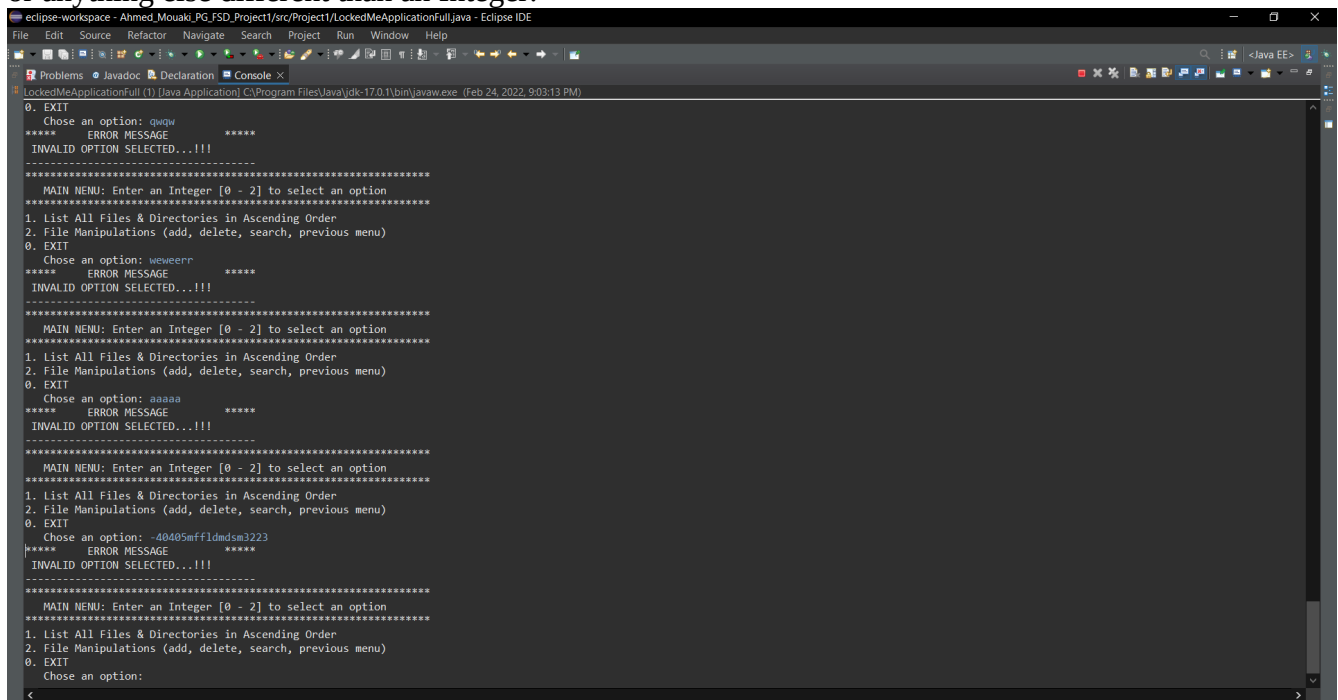
```

Fig-15: Screenshot: In case the user has entered an Integer number outside the required options range:



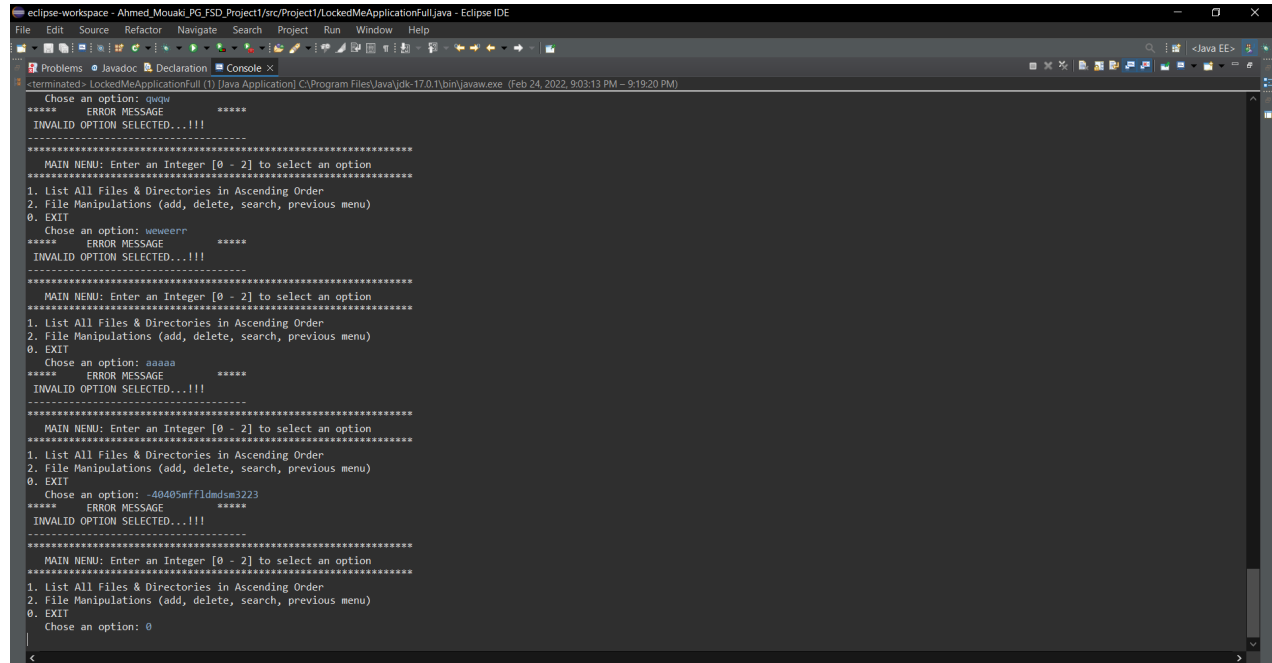
```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
2. Delete a File
3. Search for a File
4. Return to Main Menu
0. EXIT
Chose an option: 4
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 5
***** ERROR MESSAGE *****
SELECTED INTEGER OPTION IS OUT OF RANGE.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 45
***** ERROR MESSAGE *****
SELECTED INTEGER OPTION IS OUT OF RANGE.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: -67
***** ERROR MESSAGE *****
SELECTED INTEGER OPTION IS OUT OF RANGE.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```

Fig-16: Screenshot: In case the user has entered a non-Integer number such as character or a symbol or anything else different than an Integer:



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1/src/Project1/LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM)
0. EXIT
Chose an option: qwqw
***** ERROR MESSAGE *****
INVALID OPTION SELECTED.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: weewerr
***** ERROR MESSAGE *****
INVALID OPTION SELECTED.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: aaaaa
***** ERROR MESSAGE *****
INVALID OPTION SELECTED.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: -40405afflmdsm3223
***** ERROR MESSAGE *****
INVALID OPTION SELECTED.....!!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option:
```

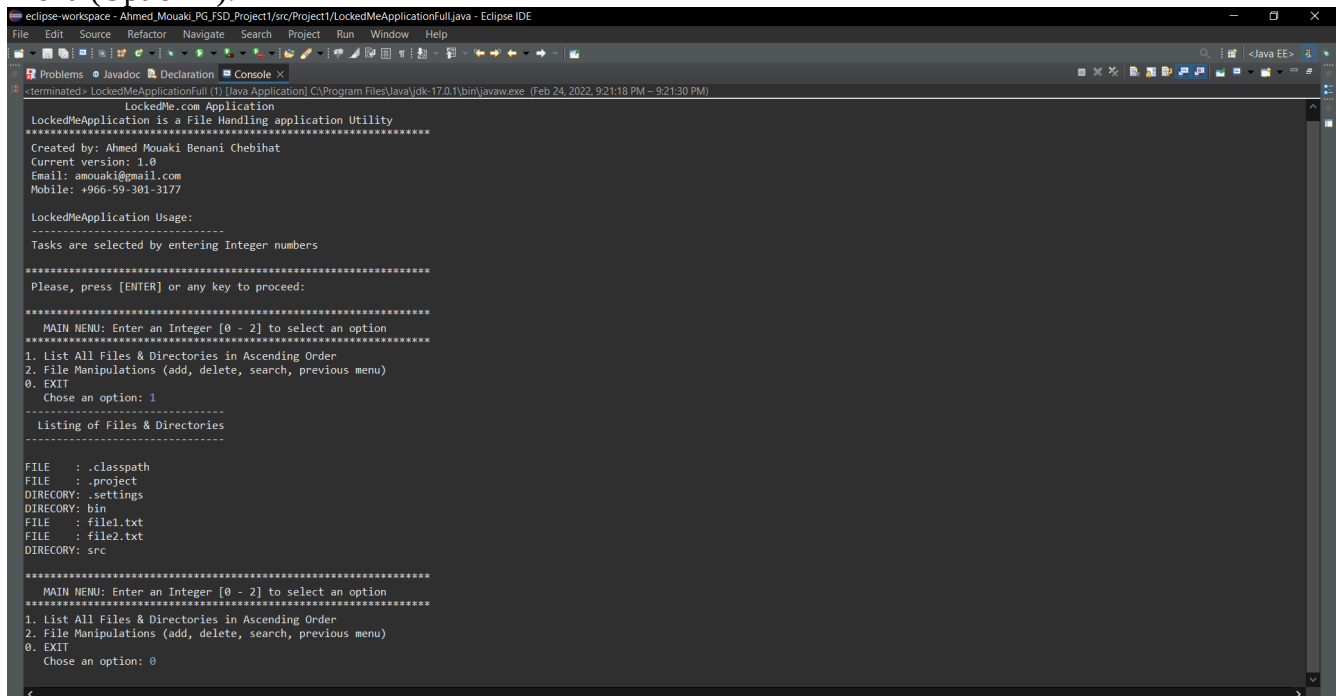
Fig-17: Screenshot: Exit the program when the user enters an Integer value = 0 from within the Sub-Menu (Option-2):



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1\src\Project1\LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
<terminated> LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:03:13 PM - 9:19:20 PM)

Chose an option: qwqw
***** ERROR MESSAGE *****
INVALID OPTION SELECTED...!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: weueerr *****
***** ERROR MESSAGE *****
INVALID OPTION SELECTED...!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: aaaaa *****
***** ERROR MESSAGE *****
INVALID OPTION SELECTED...!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: -49405mffldmsn322 *****
***** ERROR MESSAGE *****
INVALID OPTION SELECTED...!!!
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 0
```

Fig-18: Screenshot: Exit the program when the user enters an Integer value = 0 from within the Main-Menu (Option-1):



```
eclipse-workspace - Ahmed_Mouaki_PG_FSD_Project1\src\Project1\LockedMeApplicationFull.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
<terminated> LockedMeApplicationFull (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Feb 24, 2022, 9:21:18 PM - 9:21:30 PM)

LockedMe.com Application
LockedMeApplication is a File Handling application Utility
*****
Created by: Ahmed Mouaki Benani Chebihat
Current version: 1.0
Email: amouaki@gmail.com
Mobile: +966-59-301-3177

LockedMeApplication Usage:
*****
Tasks are selected by entering Integer numbers
*****
Please, press [ENTER] or any key to proceed:
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 1
*****
Listing of Files & Directories
*****
FILE : .classpath
FILE : .project
DIRECORY: .settings
DIRECORY: bin
FILE : file1.txt
FILE : file2.txt
DIRECORY: src
*****
MAIN MENU: Enter an Integer [0 - 2] to select an option
*****
1. List All Files & Directories in Ascending Order
2. File Manipulations (add, delete, search, previous menu)
0. EXIT
Chose an option: 0
```