Step 1: Creating a new project in Eclipse

1. Open Eclipse
2. Go to File -> New -> Project -> Java Project -> Next.
3. Type in any "LockedMeApp" in project name and click on "Finish."
4. Select your project ->Src-> New -> Package ->Type in "com.lockedme" and click on "Finish."
5. Select your project and go to File -> New -> Class.
6. Enter LockedMeMainApp in class name, check the checkbox "public static void main(String[] args)", and click on "Finish."

Step 2: Specifying the path of project folder where file operations will be done.

```
1   package com.lockedme;
2
3⊖  import java.io.File;
4   import java.io.FileWriter;
5   import java.util.LinkedList;
6   import java.util.Scanner;
7
8
9
10  public class LockedMeMainApp {
11
12      static final String errorMessage = "Some error occurred. Please contact the admininstration.";
13      static final String projectFilePath = "C:\\Users\\gk\\Desktop\\LockedMeApp\\1-File Path\\";
```

Step 3: Creating a switch case for all application menu inside a loop of Main method.

```
14⊖      public static void main(String[] args)
15      {
16          int in = 1;
17          Scanner sc = new Scanner(System.in);
18              do
19              {
20                  try
21                  {
22                      displayMenu();
23                      System.out.println("Slect One Option");
24                      in=Integer.parseInt(sc.nextLine());
25                      switch(in)
26                      {
27                          case 1 : getAllFiles();
28                          break;
29                          case 2 : createFiles();
30                          break;
31                          case 3 : deleteFiles();
32                          break;
33                          case 4 : searchFiles();
34                          break;
35                          case 5 : System.exit(0);
36                          break;
37                          default: System.out.println("Invalid  Option, Try Again");
38                          break;
39                      }
40                  }
41                  catch (NumberFormatException Ex)
42                  {
43                      System.out.println("Please enter Numbers only");
44                  }
45              }
46              while(in > 0);
47          sc.close();
48      }
```

Step 4: Creating a method for showing the welcome screen & menu.

```java
49⊖     public static void displayMenu()
50      {
51          System.out.println("**************************************
52          System.out.println("\t\tWelcome To LockedMe.Com Application");
53          System.out.println("**************************************
54          System.out.println("");
55          System.out.println("\t\t1. Display all existing files");
56          System.out.println("\t\t2. Create a new file");
57          System.out.println("\t\t3. Delete an existing file");
58          System.out.println("\t\t4. Search an existing file");
59          System.out.println("\t\t5. Exit");
60          System.out.println("**************************************
61          System.out.println("\t\tDeveloped by :- Harsh Jadhav");
62          System.out.println("**************************************
63      }
64
```

Output: Welcome Screen & Menu Options.

```
LockedMeMainApp [Java Application] C:\Users\gk\AppData\Local\Temp\Rar$EXa2660.34422\eclips
*********************************************************************
                Welcome To LockedMe.Com Application
*********************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*********************************************************************
                Developed by :- Harsh Jadhav
*********************************************************************
Slect One Option
```

Output: If user enters a invalid option (integer type).

```
*********************************************************************
Slect One Option
6
Invalid  Option, Try Again
*********************************************************************
                Welcome To LockedMe.Com Application
*********************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*********************************************************************
                Developed by :- Harsh Jadhav
*********************************************************************
Slect One Option
```

Output: If user enters an invalid option (string type).

```
a
Please enter Numbers only
***********************************************************************
                Welcome To LockedMe.Com Application
***********************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
***********************************************************************
                Developed by :- Harsh Jadhav
***********************************************************************
Slect One Option
```

Step 5: Creating a method for display all existing files in the directory.

```
65⊖    public static void getAllFiles()
66     {
67         try
68         {
69             File folder = new File(projectFilePath);
70             File[] listOfFiles = folder.listFiles();
71
72             if(listOfFiles.length > 0)
73
74                 for(var l:listOfFiles)
75                 {
76                     System.out.println(l.getName());
77                 }
78             else
79             {
80                 System.out.println("No Files Exist In The Directory");
81             }
82         }
83         catch(Exception Ex)
84         {
85             System.out.println("ErrorMessage in getAllFiles"+Ex.getMessage());
86         }
87     }
88
```

Output:

```
Slect One Option
1
abcd.txt
*********************************************************************
                Welcome To LockedMe.Com Application
*********************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*********************************************************************
                Developed by :- Harsh Jadhav
*********************************************************************
Slect One Option
```

Step 6: Creating a method for creating a new file in the directory.

```java
89  public static void createFiles()
90  {
91      Scanner sc = new Scanner(System.in);
92      try {
93
94          String fileName;
95          System.out.println("Enter file name");
96          fileName = sc.nextLine();
97
98          FileWriter myWriter = new FileWriter(projectFilePath + fileName + ".txt");
99
100
101         System.out.println("Write Content to store in file");
102         String line = sc.nextLine();
103         myWriter.write(line + "\n");
104
105         myWriter.close();
106         System.out.println(fileName + ".txt" + " " +"Created Successfully");
107
108     } catch (Exception Ex) {
109         System.out.println("errorMessage in createFiles ==> " + Ex.getStackTrace());
110     }
111 }
```
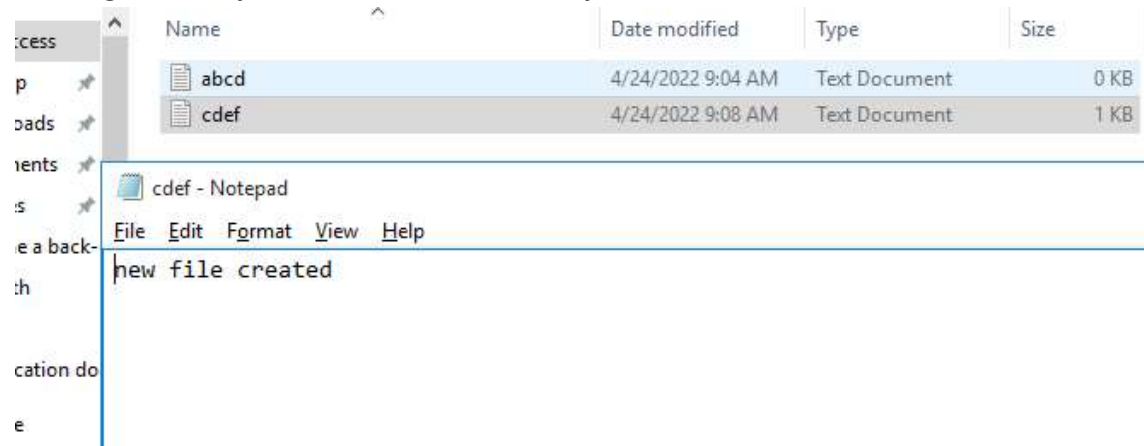
Output:

```
Slect One Option
2
Enter file name
cdef
Write Content to store in file
new file created
cdef.txt Created Successfully
*********************************************************************
                Welcome To LockedMe.Com Application
*********************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*********************************************************************
                Developed by :- Harsh Jadhav
*********************************************************************
Slect One Option
```

Showing the newly created file in the directory.

Step 7: Creating a method for deleting file in the directory.

```java
113⊖    public static void deleteFiles()
114     {
115
116         Scanner sc = new Scanner(System.in);
117         try {
118             String fileName;
119
120             System.out.println("Enter the final name to be deleted: ");
121             fileName = sc.nextLine();
122             File file = new File(projectFilePath + fileName + ".txt");
123
124             if (file.exists()) {
125                 file.delete();
126                 System.out.println("File deleted successfully: " + fileName+ ".t
127             } else
128                 System.out.println("File do not exist");
129
130         } catch (Exception Ex) {
131             System.out.println(errorMessage);
132         }
133     }
134
```

Output:

```
****************************************************************************
Slect One Option
3
Enter the final name to be deleted:
cdef
File deleted successfully: cdef.txt
****************************************************************************
                Welcome To LockedMe.Com Application
****************************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
****************************************************************************
                Developed by :- Harsh Jadhav
****************************************************************************
Slect One Option
```

Showing that the file does not exist anymore.

Home	Share	View			

> LockedMeApp > File Path

	Name		Date modified	T
:k access				
sktop	abcd		4/24/2022 9:04 AM	T
wnloads				
:cuments				
:tures				
come a back-				
∍ Path				

Step 8: Creating a method for searching a file in the directory.

```java
135  public static void searchFiles()
136  {
137      Scanner sc= new Scanner(System.in);
138
139      try
140      {
141          String fileName;
142
143          System.out.println("Enter the final name to be searched: ");
144
145          fileName=sc.nextLine();
146
147          File folder = new File(projectFilePath);
148          File[] listofFiles = folder.listFiles();
149
150          LinkedList<String> filenames = new LinkedList<String>();
151
152          for(var l:listofFiles)
153              filenames.add(l.getName());
154
155          if(filenames.contains (fileName+ ".txt"))
156              System.out.println("File is available");
157
158          else
159              System.out.println("File is not available");
160      }
161      catch(Exception Ex)
162      {
163          System.out.println(errorMessage);
164      }
165  }
166
167  }
168
```

Output: If File Exists

```
                    Developed by :- Harsh Jadhav
****************************************************************
Slect One Option
4
Enter the final name to be searched:
abcd
File is available
****************************************************************
               Welcome To LockedMe.Com Application
****************************************************************

            1. Display all existing files
            2. Create a new file
            3. Delete an existing file
            4. Search an existing file
            5. Exit
****************************************************************
               Developed by :- Harsh Jadhav
****************************************************************
Slect One Option
```

Output: If File do not Exists

```
LockedMeMain.pp [Java Application] C:\Users\gk\AppData\Local\Temp\harsEA2000IS FILE
                Developed by :- Harsh Jadhav
*******************************************************************
Slect One Option
4
Enter the final name to be searched:
ader
File is not available
*******************************************************************
                Welcome To LockedMe.Com Application
*******************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*******************************************************************
                Developed by :- Harsh Jadhav
*******************************************************************
Slect One Option
```

Output: Exit the Application.

```
*******************************************************************
                Welcome To LockedMe.Com Application
*******************************************************************

                1. Display all existing files
                2. Create a new file
                3. Delete an existing file
                4. Search an existing file
                5. Exit
*******************************************************************
                Developed by :- Harsh Jadhav
*******************************************************************
Slect One Option
5
```