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Batch	MS FSD DEC 2021 Cohort 1
Project Name	Locked Me Project
Project Submission Date	04-02-2022

Source Code

```java
package lockedmepackage;

import java.io.*;
import java.util.*;

public class LockedMeClass
{
        static final String lockedMeFilesPath ="D:\\SIMPLI LEARN";
        static final String errorMessage="Error Occurred. Please Contact admin@Lockedme.com";
        static Scanner obj = new Scanner(System.in);
        public static void main(String[] args)
        {
                int ch;
                do
                {
                        displayMenu();
                        System.out.println("\n\t Please enter your Choice");
                        ch=Integer.parseInt(obj.nextLine());

                        switch(ch)
                        {
                        case 1:displayAllFiles();
                        break;
                        case 2:addNewFiles();
                        break;
                        case 3:deleteFiles();
                        break;
                        case 4:searchFiles();
                        break;
                        case 5:System.exit(0);
                        break;
                        default:System.out.println("\tPlease choose valid option");
                }
                        }
                while(ch>0);
```

```java
                    obj.close();



        }
        /**
         * This function will display the Welcome page
         */

        public static void displayMenu()
        {

System.out.println("=========================================================");
                System.out.println("\t \t Welcome to LockedMe.com \t");

System.out.println("=========================================================");
                System.out.println("\t \t Please Choose your Option\t \n");
                System.out.println("\t 1. Display All Files from the Directory.");
                System.out.println("\t 2. Create new File in the Directory.");
                System.out.println("\t 3. Delete a File from the Directory.");
                System.out.println("\t 4. Search a File from the Directory.");
                System.out.println("\t 5. Exit. \n\n");
                System.out.println("\t\t       Developed by");
                System.out.println("\t\t     Vallapu Sai Shyam.");
                System.out.println("\t\tEmail: saishyam3105@gmail.com \n\n");

        }


        /**
         * This Method Displays all the Files in the Directory
         */

        public static void displayAllFiles()
        {
                try
                {
                File folder= new File(lockedMeFilesPath);
                File[] listOfFiles=folder.listFiles();

                if(listOfFiles.length==0)
                {
                        System.out.println("\tNo Files Exist in the Directory");
                }
                else
                {
                        System.out.println("\tThe Below are the files Present : \n ");
                        for(var l: listOfFiles)
                        {
                                System.out.println(l.getName());
                        }
```

```java
                }
            }
            catch(Exception Ex) {
                System.out.println(errorMessage);
            }
        }
    }
    public static void addNewFiles()
    {
        try
        {
            String fileName;
            System.out.println("\tPlease enter the file Name");
            fileName = obj.nextLine();

            File folder= new File(lockedMeFilesPath);
            File[] listOfFiles=folder.listFiles();

            LinkedList<String> filenames=new LinkedList<String>();

            for(var l: listOfFiles)
                filenames.add(l.getName());

            if(filenames.contains(fileName))
                {
                System.out.println("\tFile already exists. Please give another name");

                }
            else
                {
                    int linescount;
                    System.out.println("\tPlease enter the number of lines to be
created");

                    linescount = Integer.parseInt(obj.nextLine());

                    FileWriter fw= new FileWriter(lockedMeFilesPath+"\\"+fileName);
                    for(int i=1;i<=linescount;i++)
                    {
                        System.out.println("\tEnter the Data to be stored in
line : "+i);

                        fw.write(obj.nextLine()+"\n");
                    }
                    System.out.println("\t"+fileName + " File Created
Successfully");
                fw.close();

            }
        }
        catch(Exception Ex)
        {
            System.out.println(errorMessage);
        }
```

```java
        }

        /**
         * This function Deletes the file as per the user
         */
        public static void deleteFiles()
        {

                try
                {
                        String fileName;
                        System.out.println("\n\t Enter the file name to be deleted \n");
                        fileName=obj.nextLine();

                        File file= new File(lockedMeFilesPath+"\\"+fileName);
                        if (file.exists())
                                        {
                                        file.delete();
                                        System.out.println("\tFile is deleted successfully ");
                                        }
                                        else
                                                System.out.println("\tFile doesnot exist");
                }
                catch(Exception Ex)
                {
                        System.out.println(errorMessage);
                }

        }

        /**
         * This Method will search the file and display the contents of it based on user
         */
        public static void searchFiles()
        {

                try
                {
                        String fileName;
                        System.out.println("\n\t Enter the file name to be searched ");
                        fileName=obj.nextLine();

                File folder= new File(lockedMeFilesPath);
                File[] listOfFiles=folder.listFiles();

                LinkedList<String> filenames=new LinkedList<String>();

                for(var l: listOfFiles)
                        filenames.add(l.getName());
```

```
                    if(filenames.contains(fileName))
                    {
                            System.out.println("\n\t File is found \n ");
                            }
                    else
                            System.out.println("\n\t File is not found");

                    }
                    catch(Exception Ex) {
                            System.out.println(errorMessage);
                    }

            }

}
```

Screen Shots
Welcome Page

```
============================================================
               Welcome to LockedMe.com
============================================================
               Please Choose your Option

        1. Display All Files from the Directory.
        2. Create new File in the Directory.
        3. Delete a File from the Directory.
        4. Search a File from the Directory.
        5. Exit.



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               Email: saishyam3105@gmail.com



        Please enter your Choice
```

Display all Files

```
=======================================================
                Welcome to LockedMe.com
=======================================================
              Please Choose your Option

      1. Display All Files from the Directory.
      2. Create new File in the Directory.
      3. Delete a File from the Directory.
      4. Search a File from the Directory.
      5. Exit.



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          Please enter your Choice
1
          The Below are the files Present :

delete.txt
dummy.txt
employee.txt
exit.txt
hello.txt
hi.txt
welcome.txt
```

Creating a new file

```
          Please enter your Choice
2
          Please enter the file Name
abc.txt
          Please enter the number of lines to be created
2
          Enter the Data to be stored in line : 1
amazon
          Enter the Data to be stored in line : 2
river
          abc.txt File Created Successfully
```

File Already exists

```
        Please enter your Choice
2
        Please enter the file Name
hi.txt
        File already exists. Please give another name
```

Delete file case 1 : File Does not exist

```
        Please enter your Choice

3

        Enter the file name to be deleted

xyz.txt
        File doesnot exist
```

Case 2 : File is found and deleted

```
        Please enter your Choice

3

        Enter the file name to be deleted

dummy.txt
        File is deleted successfully
```

Search a file Case 1 : File is found

```
        Please enter your Choice

4

        Enter the file name to be searched
hi.txt

        File is found
```

Case 2 : File not found

```
        Please enter your Choice

4

        Enter the file name to be searched
xyz.txt

        File is not found
```

Exit

```
==========================================================
                 Welcome to LockedMe.com
==========================================================
                 Please Choose your Option

        1. Display All Files from the Directory.
        2. Create new File in the Directory.
        3. Delete a File from the Directory.
        4. Search a File from the Directory.
        5. Exit.


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        Please enter your Choice
5
```

```
                    ┌─────────────┐
                    │    START    │
                    └──────┬──────┘
                           │
                           ▼
              ┌────────────────────────────┐
              │        MAIN MENU           │
              │                            │
              │  1.  DISPLAY ALL FILES     │
              │                            │
              │  2.  ADD A NEW FILE        │
              │                            │
     ┌───────▶│  3.  DELETE A FILE         │
     │        │                            │
     │        │  4. SEARCH A FILE          │
     │        │                            │
     │        │  5. EXIT                   │
     │        └────────────┬───────────────┘
     │                     │
```

MAIN MENU

1. DISPLAY ALL FILES
2. ADD A NEW FILE
3. DELETE A FILE
4. SEARCH A FILE
5. EXIT

DISPLAY ALL FILES | ADD A NEW FILE | DELETE A FILE | SEARCH A FILE

ALL FILES ARE DISPLAYED

ENTER THE FILE NAME AND LINES COUNT

ENTER THE FILE NAME TO BE DELETED

ENTER THE FILE NAME TO BE SEARCHED

FILE EXIST

FILE EXIST

FILE EXIST

YES

YES

FILE ALREADY EXISTS

FILE DELETED SUCCESSFULLY

FILE FOUND SUCCESSFULLY

FILE CREATED SUCCESSFULLY

FILE NOT FOUND

FILE NOT FOUND

START

END