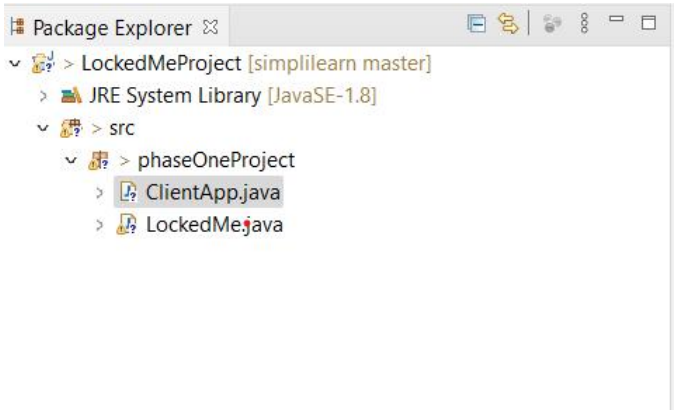
Student Name	Sachin Hegde
Project Name	LockedMe Project
Phase and Batch	Java FSD Phase-1 Feb Mar-2022
Technology Used	Java Programming
Java Concepts used	Object Oriented concepts,Collections,File Concepts, Exception Handling

Project Folder Structure :



Source Code :

LockedMe.java :

```
package phaseOneProject;

import java.io.File;
import java.io.FileWriter;
import java.util.ArrayList;
import java.util.Scanner;

public class LockedMe {
	static final String projectFiles="E:\\projectfiles";

	/**
	 * Lists all the menu
	 */
	public static void menuList() {
		System.out.println("----------------------------");
		System.out.println("Welcome to LockedMe.com");
		System.out.println("Devoloped By : Sachin Hegde");
		System.out.println("----------------------------");
		System.out.println("\t1.Display Files");
		System.out.println("\t2.Add a new File");
		System.out.println("\t3.Delete a File");
		System.out.println("\t4.Search File");
		System.out.println("\t5.Exit");
		System.out.println("----------------------------");
	}

	/**
	 * Display all the files in the folder
	 */
```

```
public static void displayFiles() {
        File file = new File(projectFiles);

       // returns an array of all files
       File[] fileList = file.listFiles();

       for(File fname : fileList) {
          System.out.println(fname.getName());
       }
}

/**
  * takes files name and number of lines from the user and create the file
  */
public static void addFile() {
        try {
                Scanner sc=new Scanner(System.in);
                String fileName;
                System.out.println("Enter File Name to Add");
                fileName=sc.nextLine();

                int lineCnt;
                System.out.println("Enter Lines Count");
                lineCnt=Integer.parseInt(sc.nextLine());

                FileWriter fw=new FileWriter(projectFiles+"\\"+fileName);

                for(int i=1;i<=lineCnt;i++) {
                        System.out.println("Enter Line "+i+" content :");
                        fw.write(sc.nextLine()+"\n");
                }
                System.out.println("File Crated Successfuly");
                fw.close();
        }
        catch(Exception e) {
                System.out.println("There is an error");
        }

}

/**
  * takes files name and    from the user and delete the file if present
  */
public static void deleteFile() {
        try {
                Scanner sc=new Scanner(System.in);
                String fileName;
                ArrayList<String> allFiles=new ArrayList<String>();

                File folder = new File(projectFiles);

               // returns an array of all files
               File[] fileList = folder.listFiles();
               if(fileList.length>0) {
                System.out.println("Files List");
                for(File fname : fileList) {
                                System.out.println(fname.getName());
                                allFiles.add(fname.getName());
                        }
               }


                System.out.println("Enter File Name to be deleted");
                fileName=sc.nextLine();
                File f=new File(projectFiles+"\\"+fileName);
                if(allFiles.contains(fileName)) {
                        f.delete();
```

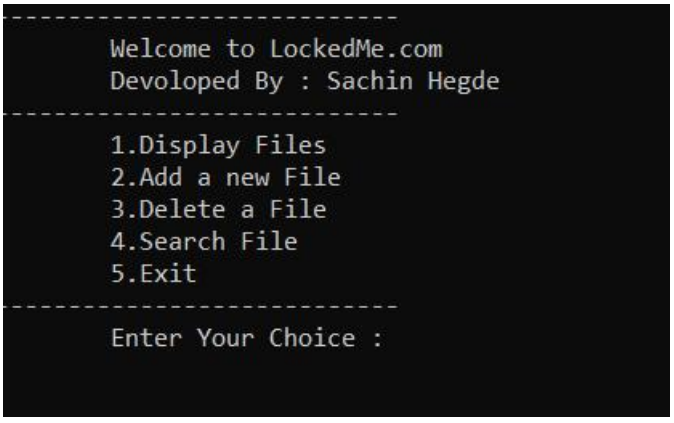
```
                System.out.println("File Deleted Successfuly");
            }
            else {
                System.out.println("File Not exist");
            }
        }
        catch(Exception e) {
            System.out.println("There is an error");
        }


    }

    /**
     * takes files name and    from the user and searches the file
     */
    public static void seachFile() {

        try {
            Scanner sc=new Scanner(System.in);
            String fileName;

            ArrayList<String> allFiles=new ArrayList<String>();
            File folder = new File(projectFiles);
           File[] fileList = folder.listFiles();
           if(fileList.length>0) {

            for(File fname : fileList) {
                allFiles.add(fname.getName());
               }
           }


            System.out.println("Enter File Name");
            fileName=sc.nextLine();
            File f=new File(projectFiles+"\\"+fileName);
            if(allFiles.contains(fileName)) {
                System.out.println("File Present");
            }
            else {
                System.out.println("File Not exist");
            }
        }
        catch(Exception e) {
            System.out.println("There is an error");
        }
    }

}
```

ClientApp.java

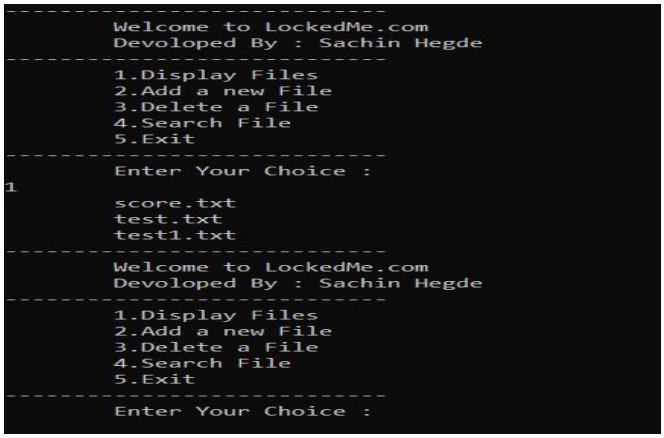
```
package phaseOneProject;

import java.util.Scanner;

public class ClientApp {

    public static void main(String[] args) {
        Scanner obj=new Scanner(System.in);
        int ch;
        do {
            LockedMe.menuList();
            System.out.println("Enter Your Choice : ");
```

```
                ch=Integer.parseInt(obj.nextLine());
                switch(ch) {
                    case 1:LockedMe.displayFiles();
                        break;
                    case 2:LockedMe.addFile();
                        break;
                    case 3:LockedMe.deleteFile();
                        break;
                    case 4:LockedMe.seachFile();
                        break;
                    case 5:System.exit(0);
                        break;
                    default:System.out.println("Invalid Option");
                        break;
                }
            }
            while(ch>0);

            obj.nextLine();
            obj.close();

    }

}
```

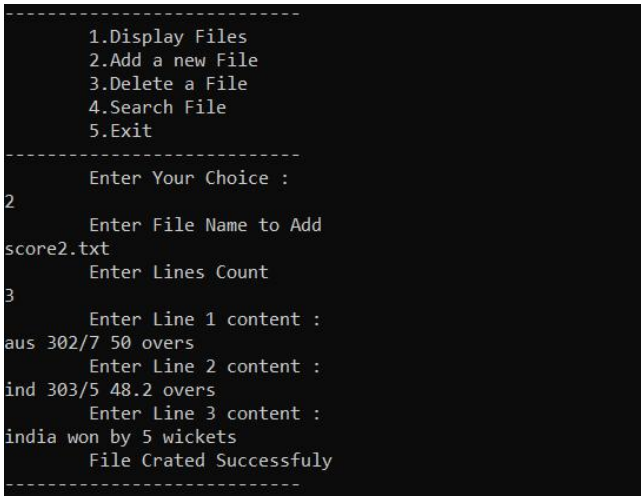
Screen Shots



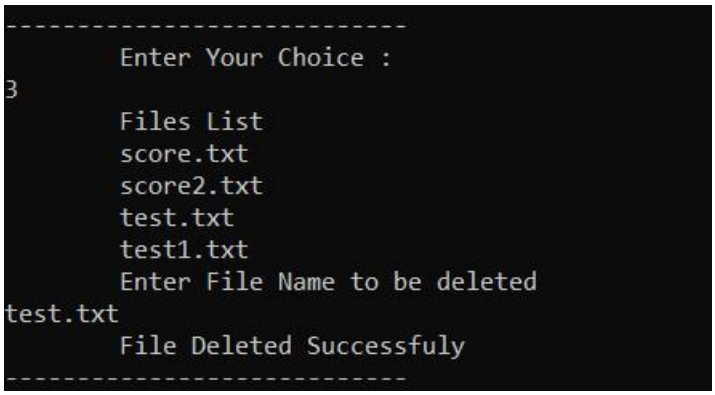
Menu list



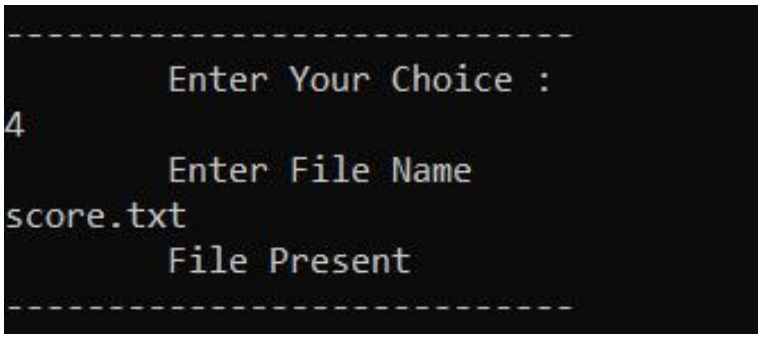
Display all files



Add a file



Delete a file



Search a file

GitHub URL : https://github.com/SachinHegde1997/PhaseOne-Project.git