Source CODE- written in JAVA

Class -1→

GenricAndMenu class-

```
public class GenricAndMenu {
   private String applicationName ="Locker File";
   private String developerName="Rahul Rana";
   private FileOutputStreamDemo file=new FileOutputStreamDemo();
   public void nameDispaly() {
      System.out.println("|-----
     -----|");
      System.out.println(" | Appplication Name:
+applicationName+"
                                                         |");
      System.out.println("| Developer Name:
+developerName+"
                                                          |");
      System.out.println("|Note-- The output & input will be shown/taken in the
Console in form of NUMBER |");
      System.out.println("|-----
  ----|");
   public void GenricDisplay()
      System.out.println();
      System.out.println("+----
     ----+");
      System.out.println("Menu ----");
      System.out.println("1. Sort files in Ascending order");
      System.out.println("2. Business Level Operation");
      System.out.println("0. Exit from the console");
      System.out.println("-----
     ----");
      System.out.println();
   public void MenuBusinessLogic()
```

```
System.out.println();
   System.out.println("/-----
    ----/");
   System.out.println("Business level logic menu----");
   System.out.println("1.Add the File");
   System.out.println("2.Delete the File");
   System.out.println("3.Search for specified File");
   System.out.println("4.Show Content of file");
   System.out.println("5.Back to previous Menu");
   System.out.println("/-----
   ----/");
   System.out.println();
public void addFile(String fname)
   file.createFile(fname);
public void deleteFile(String fname)
           file.deleteF(fname);
public void searchFile(String fname)
   file.searchFound(fname);
public void showContent(String fname)
   file.displayFile(fname);
```

Class 2→

FileOutputDemo class-

```
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.Scanner;
import javax.swing.filechooser.FileSystemView;
public class FileOutputStreamDemo {
    private FileOutputStream file=null;
    private FileInputStream fis=null;
    public void createFile(String fname)
        try {
            File home = FileSystemView.getFileSystemView().getHomeDirectory();
            String desktop=home.getAbsolutePath();
            String desktop1=desktop+"//"+fname;
        file=new FileOutputStream(desktop1);
        String data="";
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter text to write in File:");
        data=sc.nextLine();
        byte [] b=data.getBytes();
        file.write(b);
        catch(IOException e)
            System.out.println("Input output error");
        finally{
            if(file!=null)
                try{
                    file.close();
            catch(IOException e)
```

```
System.out.println("File close error.");
public void displayFile(String fname)
    try {File home = FileSystemView.getFileSystemView().getHomeDirectory();
    String desktop=home.getAbsolutePath();
    String desktop1=desktop+"//"+fname;
        fis=new FileInputStream(desktop1);
        int data;
        System.out.println("");
        System.out.println("CONTENT OF THE FILE:");
        System.out.println();
        while((data=fis.read())!=-1)//until file empty
            System.out.print((char)data);
    catch(IOException e)
        System.out.println("No such file exist.");
    finally {
        if(fis!=null)
            try {
                fis.close();
        catch(IOException e)
            System.out.println("Input Output error occured.");
    }
public void deleteF(String fname)
{ File home = FileSystemView.getFileSystemView().getHomeDirectory();
String desktop=home.getAbsolutePath();
String desktop1=desktop+"//"+fname;
    File f=new File(desktop1);
```

Class 3→

MainFunction - main class - from where code will execute

```
import java.io.File;
import java.util.InputMismatchException;
import java.util.Scanner;
import java.util.TreeSet;

import javax.swing.filechooser.FileSystemView;

public class MainFunction {
    public static void main(String[] args) {

        int response=0,res;
        String fileName;
        //To get desktop Path
        File home = FileSystemView.getFileSystemView().getHomeDirectory();
        String desktop=home.getAbsolutePath();
        TreeSet<String> treeSet=new TreeSet<>();
```

```
GenricAndMenu genric=new GenricAndMenu();
genric.nameDispaly();
genric.GenricDisplay();
File[] files=new File(desktop).listFiles();//path of directory
for(File file:files)
    if(file.isFile())
        treeSet.add(file.getName());
System.out.println("Files already present in DESKTOP");
System.out.println("Total Files:" +treeSet.size());
System.out.println();
System.out.println("Desktop File Names : "+ treeSet);
System.out.println();
    System.out.println();
    System.out.println("Your selection(Number between 0 & 2): ");
Scanner input=new Scanner(System.in);
while(!input.hasNextInt())
    System.out.println("Enter number between 0 & 2!!!");
    input.next();
response=input.nextInt();
while(response!=0)
    if(response<1 || response>3)
        System.out.println("NOTE: please enter between 0 & 2");
    else
        switch(response)
        case 1: //Sort the List of file
                    System.out.println(" Sorted List is : ");
                    System.out.println();
                    for(String tree:treeSet)
                    System.out.println(tree);
                    System.out.println();
                    System.out.println("-----
                    ----");
                    genric.GenricDisplay();
```

```
break;
                case 2://Business Level logic
                        { System.out.println();
                            System.out.println("Going in Business Level logic");
                            //calling class method
                            genric.MenuBusinessLogic();
                            System.out.println("Enter your choice (NUMBER
bewtween 1 & 5):");
                            while(!input.hasNextInt())
                                System.out.println("Enter number between 1 &
5!!!");
                                input.next();
                             res=input.nextInt();
                            while(res!=5)
                            { if(res<1 ||res >5)
                                    System.out.println("NOTE: Please enter
between 1 & 5");
                                else
                                    switch(res)
                                        case 1://Add the file
                                                System.out.println("File Name:");
                                                fileName=input.nextLine();
                                                fileName+=input.nextLine();;
                                                treeSet.add(fileName);
                                                genric.addFile(fileName);
                                                System.out.println();
                                                System.out.println("SUCESSFULLY
ADDED THE FILE : "+fileName);
                                                System.out.println();
                                                System.out.println("Total files
now :"+treeSet.size());
                                                System.out.println();
                                                System.out.println("Files in
directory(DESKTOP): "+treeSet);
                                                genric.MenuBusinessLogic();
                                                break;
                                        case 2: //delete the file
                                                System.out.println("Delete file:
 );
                                                fileName=input.nextLine();
```

```
fileName+=input.nextLine();
                                                 System.out.println();
                                                 treeSet.remove(fileName);
                                                 genric.deleteFile(fileName);
                                                 System.out.println();
                                                 System.out.println("Total files
Remaining :"+treeSet.size());
                                                 System.out.println();
                                                 System.out.println("Remanining
Files(DESKTOP) :"+treeSet);
                                                 genric.MenuBusinessLogic();
                                                 break;
                                        case 3://search for the file
                                                 System.out.println("Search file:
 );
                                                 fileName=input.nextLine();
                                                 fileName+=input.nextLine();
                                                 System.out.println();
                                                 genric.searchFile(fileName);
                                                 genric.MenuBusinessLogic();
                                                 break;
                                        case 4://Display file content
                                                 System.out.println("All files
are shown: ");
                                                 System.out.println(treeSet);
                                                 System.out.println();
                                                 System.out.println("Display file:
 );
                                                 fileName=input.nextLine();
                                                 fileName+=input.nextLine();
                                                 genric.showContent(fileName);
                                                 System.out.println();
                                                 genric.MenuBusinessLogic();
                                                 break;
                                        default:System.out.println("Enter number
please");
                                                 break;
                            System.out.println("Select Option (NUMBER between 1 &
5):");
                            while(!input.hasNextInt())
                                System.out.println("Enter number between 1 &
5!!!");
```

```
input.next();
                            res=input.nextInt();
                            genric.GenricDisplay();//returning to previous menu
                        break;
                    default: System.out.println("enter number please 0 & 2");
                                break;
            System.out.println("Select Option(NUMBER between 0 & 2): ");
            while(!input.hasNextInt())
                System.out.println("Enter number between 0 & 2!!!");
                input.next();
            response=input.nextInt();
        if(response==0)
            System.out.println();
            System.out.println("Thank you for using this application. You have
been suceesfully EXITED.");
```