**Source Code**

**Main.Java**

package file\_app;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Main {

public static void main(String args[]){

boolean c = true;

System.out.println("WELCOME TO Lockers Pvt. Ltd.");

Sets s=new Sets();

s.add();

do {

try {

System.out.println("The choices are:");

System.out.println("1.Display files in ascending order\n2.Adding a file\n3.Delete a file\n4.Search a file\n5.Close the application");

Scanner sc=new Scanner(System.in);

System.out.println("Enter the choice:");

int choice=sc.nextInt();

switch(choice) {

case 1:

System.out.println("Displaying files in ascending order");

s.display();

break;

case 2:

AddFile add=new AddFile();

add.addfile();

break;

case 3:

DeleteFile delete= new DeleteFile();

try {

delete.deletefile();

} catch (FileNotFoundException e) {

System.out.println("The requested File Not Found ");

}

break;

case 4:

SearchFile search=new SearchFile();

try {

search.searchFile();

} catch (FileNotFoundException e) {

System.out.println("FileNotFound ");

}

break;

case 5:

System.out.println("Exiting from the application");

System.exit(0);

break;

default:

System.out.println("Choose the valid options");

break;

}

System.out.println("Press y to continue or press any other keys to exit ");

char x = sc.next().charAt(0);

if(x!='y') {

c=false;

System.out.println("Closing the application");

}

}

catch(Exception e)

{

System.out.println("Give the correct input");

}

}while(c);

}

}

**AddFile.Java**

package file\_app;

import java.io.BufferedOutputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.util.Scanner;

public class AddFile {

public void addfile() {

System.out.println("Select the file you want to add:");

FileOutputStream fos=null;

BufferedOutputStream bos=null;

Scanner addinput=new Scanner(System.in);

String name=addinput.nextLine();

try {

fos=new FileOutputStream(name);

Sets s=new Sets();

s.addset(name);

System.out.println("File " +name+" added Successfully");

} catch (FileNotFoundException e) {

System.out.println(e);

} catch (IOException e) {

System.out.println(e);

}finally {

try {

fos.close();

} catch (IOException e) {

System.out.println(e);

}

}

}

}

**DeleteFile.Java**

package file\_app;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.util.Scanner;

public class DeleteFile {

public void deletefile() throws FileNotFoundException {

Scanner sc=new Scanner(System.in);

System.out.println("Enter the file you need to delete");

String del=sc.nextLine();

File obj= new File(del);

if(!obj.exists()) {

System.out.println("Choose from the available files to delete");

Sets s=new Sets();

s.display();

throw new FileNotFoundException();

}

else {

Sets s=new Sets();

s.deleteset(del);

obj.delete();

System.out.println("Deleted Successfully");

}

}

}

**Sets.Java**

package file\_app;

import java.io.File;

import java.io.FilenameFilter;

import java.util.Collections;

import java.util.Iterator;

import java.util.Set;

import java.util.TreeSet;

public class Sets {

public static final Set<String> file=new TreeSet<String>();

public void add() {

File path= new File("E:\\phase1\_project\\MyProject");

FilenameFilter textFilefilter = new FilenameFilter() {

@Override

public boolean accept(File dir, String name) {

String Name = name.toLowerCase();

if (Name.endsWith(".txt")) {

return true;

} else {

return false;

}

}

};

String filesList[] = path.list(textFilefilter);

for(String fileName : filesList) {

file.add(fileName);

}

}

public int searchset(String name) {

int index = -1;

if(file.contains(name)){

index = ((TreeSet<String>)file).headSet(name).size();

}

return index;

}

public void display() {

Iterator<String> i = file.iterator();

while (i.hasNext())

System.out.println(i.next());

}

public void addset(String name) {

file.add(name);

}

public void deleteset(String name) {

file.remove(name);

}

}