Source Codes:

**Driverprgm.java: This is the main program of the application.**

package dir;

public class driverprgm {

public static void main(String []args) {

welcome\_menu.welcome();

menus.menuslists();

}

}

**Checldir.java:This program is used to sort all files in the “directed” folder in ascending order.**

package dir;

import java.io.File;

import java.text.Collator;

import java.util.\*;

public class checldir {

public static void sortfiles() {

/\* This implementation can be used for taking user input for sorting the files in ascending order

\*

Scanner sc = new Scanner(System.in);

System.out.println("Enter the url where you want to sort the files in ascending order");

System.out.println();

String url\_dir = sc.nextLine();

File fileDir = new File(url\_dir);

\*/

File fileDir = new File(".\\directed");

if(fileDir.isDirectory()){

List<String> listFile = Arrays.asList(fileDir.list());

System.out.println("The files present in the Directory are :");

for(String s:listFile){

System.out.println(s);

}

//Collections.sort(listFile);

Collections.sort(listFile, Collator.getInstance(Locale.ENGLISH));

//The above statement can be used when we want files with lowercase letters to be

//displayed before the uppercase

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("Sorting by filename in ascending order");

for(String s:listFile){

System.out.println(s);

}

}

else{

System.out.println(fileDir.getAbsolutePath() + " is not a directory");

System.exit(0);

}

}

**Fileops.java: This program is used to perform all the file operations which are adding,deleting and searching a file in “directed” folder**

package dir;

//import java.io.BufferedWriter;

import java.io.\*;

//import java.io.FileWriter;

//import java.util.\*;

import java.io.IOException;

import java.nio.file.FileAlreadyExistsException;

import java.nio.file.\*;

public class fileops {

public static void createfiles(String filename) {

filename = filename+".txt";

Path path = Paths.get("./directed/"+filename);

try{

Files.createDirectories(path.getParent());

Files.createFile(path);

System.out.println(filename + " has been created successfully");

System.out.println();

}

catch(FileAlreadyExistsException e) {

System.err.println("already exists: " + e.getMessage());

}

catch(IOException op) {

System.err.println("Check: " + op.getMessage());

System.out.println(op.getClass().getName());

}

}

public static void deletefiles(String filename) {

Path path = Paths.get("./directed/"+filename);

try

{

Files.delete(path);

}

catch(NoSuchFileException e)

{

System.out.println("File Not Found(FNF)");

}

catch(DirectoryNotEmptyException e)

{

System.out.println("Directory is not empty.");

}

catch(IOException e)

{

System.out.println("Invalid permissions.");

}

System.out.println("Deletion successful.");

//sc.close();

}

public static void searchfiles(String filename) {

File directory = new File("./directed");

String[] flist = directory.list();

int flag = 0;

if (flist == null) {

System.out.println("Empty directory.");

}

else {

for (int i=0;i<flist.length;i++) {

String name = flist[i];

if(name.equals(filename)) {

System.out.println(name+"found at :"+directory);

flag = 1;

}

}

}

if(flag == 0) {

System.out.println("File not found");

}

}

}

**Menus.java:This program is used to showcase different menus exisitng in the application**

package dir;

import java.util.Scanner;

public class menus {

public static void menuslists() {

boolean chk = true;

Scanner sc = new Scanner(System.in);

do {

try {

welcome\_menu.menu();

System.out.println();

int opt = sc.nextInt();

switch(opt) {

case 1 :

checldir.sortfiles();

break;

case 2:

menus.subfilemenu();

break;

case 3:

System.out.println("Program Terminated Successfully");

chk = false;

sc.close();

System.exit(0);

break;

default:

System.out.println("Please enter a valid option");

}

}

catch(Exception e) {

System.out.println(e.getClass().getName());

}

}

while(chk==true);

}

public static void subfilemenu() {

boolean chk = true;

Scanner sc = new Scanner(System.in);

welcome\_menu.fileoptions();

System.out.println();

int ch = sc.nextInt();

do {

try {

switch(ch) {

case 1:

System.out.println("Enter the file name");

//System.out.println();

String filename = sc.next();

fileops.createfiles(filename);

//subfilemenu();

return;

case 2:

System.out.println("Enter a filename to delete");

String delname = sc.next();

fileops.deletefiles(delname);

//subfilemenu();

return;

case 3:

System.out.println("Enter the file name to be searched in the directory");

String searchname = sc.next();

fileops.searchfiles(searchname);

return;

case 4:

menuslists();

break;

case 5:

System.out.println("Program Terminated Successfully");

sc.close();

chk=false;

System.exit(0);

break;

default:

System.out.println("Please Enter a valid option!");

}

}

catch(Exception e) {

System.out.println(e.getClass().getName());

}

}while(chk==true);

}

}

**Welcome\_menu.java: This is used to display the necessary information**

package dir;

public class welcome\_menu {

public static void welcome() {

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"+"Welcome to LockedMe\n"

+"The Application was developed by Ashish Prasad ");

System.out.println();

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"+""

+ "This Application can perform following options:\n"+

"1.To Sort the files in Ascending order in Directed folder\n"+

"2.To Create,Delete and Search for a file in Directed folder");

System.out.println("The menu:\n");

//menu();

}

public static void menu() {

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"+""

+ "Choose an option from 1-3 for the following menu below:\n"+""

+ "1.Retrieve all files in Ascending order in directed folder\n"+

"2.File menu options(Create,delete,Search\n"+

"3.Exit the program");

System.out.println("Please enter a choice\n");

}

public static void fileoptions() {

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n"+

"1.Create a new file in Directed folder\n"+

"2.Delete a file from Directed folder\n"+

"3.Search for a file in Directed folder\n"+

"4.Return back to main menu");

System.out.println("Please enter a choice\n");

}

}