Source Code : File\_Handling & Operations Console based Application

Test.java

**package** com;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

System.***out***.println("Welcome to File Handling & Operations");

Loop.*switch1*();

}

}

Loop.java

**package** com;

**import** java.util.\*;

**public** **class** Loop **extends** OuterFunction {

String filename;

**static** String *n*;

String ch;

**static** Scanner *sc* = **new** Scanner(System.***in***);

**static** **boolean** *b* = **true**;

**static** **void** switch1()

{

**while**(*b*==**true**){

**if**(*b*==**true**){

System.***out***.println(" 1. Show all files \n 2. perform operations on files \n 3. exit");

System.***out***.print("enter the action no. to be performed\n");

*n*=*sc*.next();

**switch**(*n*)

{

**case** "1":

*display*();

**break**;

**case** "2":

*operation*();

**break**;

**case** "3":

System.***out***.println("Thank you for Visiting");

*b*=**false**;

**break**;

**default**:

System.***out***.println("plz select correct option");

**break**;

}

}

**else**{

**break**;

}

}

}

}

OuterFunction.java

**package** com;

**import** java.io.File;

**import** java.util.\*;

**public** **class** OuterFunction **extends** InnerFunction {

String filename;

String n;

**static** String *ch*;

**static** Scanner *sc* = **new** Scanner(System.***in***);

**static** **boolean** *c* = **true**;

**static** **void** display()

{

File f = **null**;

String[] paths;

System.***out***.println("Files in Asceding Order : ");

**try** {

f = **new** File("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files");

paths = f.list();

**for**(String path:paths) {

System.***out***.println(path);

}

} **catch**(Exception e) {

e.printStackTrace();

}

}

**static** **void** operation()

{

**while**(*c*==**true**){

**if**(*c*==**true**){

System.***out***.println(" a. Add file \n d. Delete file \n s. Search file \n e. exit");

System.***out***.print("enter the action no. to be performed\n");

*ch*=*sc*.next();

**switch**(*ch*)

{

**case** "a" :

*create*();

**break**;

**case** "d":

*delete*();

**break**;

**case** "s":

*search*();

**break**;

**case** "e":

*exit*();

*c*=**false**;

**break**;

**default**:

System.***out***.println("plz select correct option");

**break**;

}

}

**else**{

**break**;

}

}

}

}

InnerFunction.java

package com;

import java.io.\*;

import java.nio.file.\*;

import java.util.\*;

public class InnerFunction {

static String filename;

String n,ch;

static String sname;

static Scanner sc = new Scanner(System.in);

static void create()

{

System.out.println("plz enter name of file to be create");

filename=sc.next();

Path path = Paths.get("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files/"+filename+".txt");

try

{

Path p= Files.createFile(path);

if(p != null)

{

System.out.println("file created ");

}

else{

System.out.println("file exist ");

}

}

catch (IOException e)

{

e.printStackTrace();

}

}

static void delete()

{

try

{

System.out.println("plz enter name of file to be delete");

filename=sc.next();

File f= new File("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files/"+filename);

if(f.delete())

{

System.out.println(f.getName() + " deleted");

}

else

{

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

}

}

catch(Exception e)

{

e.printStackTrace();

}

}

static void search()

{

System.out.println("enter file name to be search");

sname = sc.next();

File f = new File("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files");

ArrayList<String> names = new ArrayList<String>(Arrays.asList(f.list()));

String[] item = names.toArray(new String[names.size()]);

Arrays.sort(item);

int result= Arrays.binarySearch(item, 0, item.length, sname);

if(result<0) {

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

}else {

System.out.println("File present at position "+result);

searchFileOperation();

}

}

static void searchFileOperation() {

System.out.println("1. want to see contain of file\n 2. want to add data to the file\n 3.back to menu");

int yes = sc.nextInt();

if(yes==1)

{

try{

FileInputStream fis = new FileInputStream("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files/"+sname);

BufferedInputStream bis = new BufferedInputStream(fis);

int ch;

while( (ch=bis.read()) != -1){

System.out.print((char)ch);

}

bis.close();

}catch(IOException e){

System.out.println(e);

}

searchFileOperation();

}else if(yes==2)

{

try{

DataInputStream dis = new DataInputStream(System.in);

FileOutputStream fos = new FileOutputStream("D:/INFOSTRETCH/Project FSD/Phase 2/directory for files/"+sname,true);

System.out.println("enter the data");

int ch;

while( (ch=dis.read()) != '\n'){

fos.write(ch);

}

fos.close();

System.out.println("Data added to file "+sname);

}catch(IOException e){

System.out.println(e);

}

searchFileOperation();

} else if(yes==3){

OuterFunction.operation();

}else {

System.out.println("plz enter correct data");

}

}

static void exit()

{

System.out.println("return to main menu");

Loop.switch1();

}

}