**Source Code:**

1. Main class contain Main Method: Class: **OperationMainmenu.java**

**package** project.phase1.pro;

**public** **class** OperationMainmenu {

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

System.***out***.println("Welcome all to my Phase 1 project");

System.***out***.println("Project details : Virtual Key for Your Repository");

System.***out***.println("Developer Details : Ajimal . K A");

MainMenuClass.*Mainmenuoptions*();

}

}

**2)** Main menu handling: Class **: MainMenuClass.java**

package project.phase1.pro;

import java.io.File;

import java.util.Scanner;

import project.phase1.pro.exception.ProperValuefromcustomer;

public class MainMenuClass {

static File rootpath = new File("D:\\work\\JavaPhase1pro\\Files");

public static void Mainmenuoptions () throws Exception

{

Scanner sc = new Scanner(System.in);

String condition = null;

do {

System.out.println("Please enter the below options you want to check from your end");

System.out.println("Please enter 1 : Display all files in ascending order");

System.out.println("Please enter 2 : SubMenu Options :: ADD / DELETE / SEARCH the specified files in the application ");

System.out.println("Please enter 3 : Exit from the application");

int choice = sc.nextInt();

switch (choice) {

case 1:FilehandlingMain.Handling();

break;

case 2: SubmenuOptionmenu.subOption();

break;

case 3: System.exit(0);

break;

default: System.out.println("Please enter the correct option");

}

System.out.println("Do you want to continue ? (Y/N)");

condition = sc.next();

try {

if (!condition.equalsIgnoreCase("Y") && !condition.equalsIgnoreCase("N")) {

throw new ProperValuefromcustomer("Please enter Y or N");

}

}catch (Exception e)

{

System.err.println(e);

}

} while (condition.equalsIgnoreCase("y"));

sc.close();

}

}

1. Submenu Handling: Class : **SubmenuOptionmenu.java**

**package** project.phase1.pro;

**import** java.util.Scanner;

**public** **class** SubmenuOptionmenu {

**private** **static** Scanner *sc*;

**public** **static** **void** subOption () **throws** Exception{

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

**while** (**true**) {

System.***out***.println("Please enter A : ADD user specified files to the application");

System.***out***.println("Please enter B : DELETE a user specified files from the application");

System.***out***.println("Please enter C : SEARCH a user specified files from the application");

System.***out***.println("Please enter D : Exit from the submenu");

String option = *sc*.next() ;

**if** (option.equalsIgnoreCase("A")) {

FilecreationMain.*FileCreation*();

}**else** **if** (option.equalsIgnoreCase("B")){

FiledeletionMain.*filedelete*();

}**else** **if** (option.equalsIgnoreCase("C")) {

FilesearchMain.*filesearch*();

}

**else** **if** (option.equalsIgnoreCase("D")) {

**break**;

}

**else**{

System.***out***.println("Please enter correct value");}

}}}

**4)** Files in ascending order: class :**FilehandlingMain.java**

package project.phase1.pro;

import java.io.File;

import java.text.Collator;

import java.util.Arrays;

public class FilehandlingMain {

public static void Handling()

{

MainMenuClass.rootpath = new File("D:\\work\\JavaPhase1pro\\Files");

String fileName[] = MainMenuClass.rootpath.list();

//

// for(String files : fileName)

// {

// System.out.println(files);

// }

Arrays.sort(fileName, Collator.getInstance()); // case sensitive sorting of array

System.out.println("Please find the Assending order of the files in the Application");

for(String files : fileName)

{

System.out.println(files);

}

}

}

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1. **File creation Class: FilecreationMain.java**

package project.phase1.pro;

import java.io.File;

import java.util.Scanner;

public class FilecreationMain {

private static Scanner sc;

public static void FileCreation() throws Exception{

MainMenuClass.rootpath = new File("D:\\work\\JavaPhase1pro\\Files");

sc = new Scanner(System.in);

System.out.println("Enter the filename to be created");

String fileName = sc.next() ;

String path = MainMenuClass.rootpath.getPath()+ "//" + fileName;

MainMenuClass.rootpath = new File(path);

if (MainMenuClass.rootpath.exists())

{

System.out.println("File already exixt");

}

else {

MainMenuClass.rootpath.createNewFile();

System.out.println("File Created");}

}

}

1. File deletion class: **FiledeletionMain.java**

package project.phase1.pro;

import java.io.File;

import java.util.Scanner;

public class FiledeletionMain {

private static Scanner sc;

public static void filedelete() throws Exception {

MainMenuClass.rootpath = new File("D:\\work\\JavaPhase1pro\\Files");

sc = new Scanner(System.in);

System.out.println("Enter the file to be Deleted");

String deletfile = sc.next();

String deletefilepath = MainMenuClass.rootpath.getPath()+ "//" +deletfile;

MainMenuClass.rootpath = new File(deletefilepath);

if(MainMenuClass.rootpath.exists())

{

MainMenuClass.rootpath.delete();

System.out.println("File sucessfully deleted");

}else {

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

}

}

}

1. File Search Class: **FilesearchMain.java**

package project.phase1.pro;

import java.io.File;

import java.util.Scanner;

public class FilesearchMain {

private static Scanner sc;

public static void filesearch() {

MainMenuClass.rootpath = new File("D:\\work\\JavaPhase1pro\\Files");

sc = new Scanner(System.in);

System.out.println("Enter the file to be search");

String file = sc.next();

String filesearch = MainMenuClass.rootpath.getPath()+"//"+ file;

MainMenuClass.rootpath = new File(filesearch);

if (MainMenuClass.rootpath.exists()) {

System.out.println("File is present");

} else

System.out.println("File is not present");

}

}

1. File Exception Class: **ProperValuefromcustomer.java**

**package** project.phase1.pro.exception;

@SuppressWarnings("serial")

**public** **class** ProperValuefromcustomer **extends** Exception {

**public** ProperValuefromcustomer() {

**super**();

}

**public** ProperValuefromcustomer(String message) {

**super**(message);

}

}