**Virtual Key for Repository :**

**---------------------------------------------------------**

**package** com.myfirstproject;

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.Arrays;

**import** java.util.Scanner;

**public** **class** FinalProject {

**static** String *Path*;

File myFolder;

**public** FinalProject() {

*Path* = System.*getProperty*("user.dir");

myFolder = **new** File(*Path*+"/files");

**if** (!myFolder.exists())

myFolder.mkdirs();

System.***out***.println("MyFilePath : "+ myFolder.getAbsolutePath());

}

**private** **static** **final** String ***WELCOME\_TO\_MY\_COMPANY\_PROTAL*** =

"\n MyCompany Locker "

+ " " +

"\n By MyCompany Pvt.Ltd "

+ " " +

"\n Developed By Cheekoti Ramya";

**private** **static** **final** String ***The\_LOGIC\_PART*** =

"\n Main Operation - Select any of the following operations: \n"+

"1 -> List the types of files in directory\n"+

"2 -> Perfotm functions like Add, Delete or Search\n"+

"3 -> Exit Program";

**private** **static** **final** String ***THE\_FUNCTIONALITY\_PART*** =

" \nSelect any of the following operations: \n"+

" 1 -> Add a file\n"+

" 2 -> Delete a file\n"+

" 3 -> Search a file\n"+

" 4 -> GoBack to Logic Part";

**void** firstView() {

System.***out***.println(***The\_LOGIC\_PART***);

**try**(Scanner scanner = **new** Scanner(System.***in***)){

**int** option = scanner.nextInt();

**switch** (option){

**case** 1 : {

showListOfFiles();

firstView();

}

**case** 2 : {

secondView();

}

**case** 3 : {

System.***out***.println("Thank You");

System.*exit*(0);

}

**default**: firstView();

}

}

**catch** (Exception e){

System.***out***.println("Please enter 1, 2 or 3");

firstView();

}

}

**void** secondView() {

System.***out***.println(***THE\_FUNCTIONALITY\_PART***);

**try**(Scanner scanner = **new** Scanner(System.***in***))

{

**char**[] input = scanner.nextLine().toLowerCase().trim().toCharArray();

**char** logic = input[0];

**switch** (logic){

**case** '1' : {

System.***out***.print("Please Enter a File Name you want to Add : ");

String filename = scanner.next().trim().toLowerCase();

addFileMethod(filename);

**break**;

}

**case** '2' : {

System.***out***.print("Please Enter a File Name you want to Delete : ");

String filename = scanner.next().trim();

deleteFileMethod(filename);

**break**;

}

**case** '3' : {

System.***out***.print("Please Enter a File Name you want to Search For : ");

String filename = scanner.next().trim();

searchFileMethod(filename);

**break**;

}

**case** '4' : {

System.***out***.println("Going back to main logic part");

firstView();

**break**;

}

**default** : System.***out***.println("Please enter correct values to search the data in list");

}

secondView();

}

**catch** (Exception e){

System.***out***.println("Please enter correct values to search the data in list");

secondView();

}

}

**void** showListOfFiles() {

**if** (myFolder.list().length==0)

System.***out***.println("The folder is empty");

**else** {

String[] list = myFolder.list();

System.***out***.println("The files in "+ myFolder +" are :");

Arrays.*sort*(list);

**for** (String str:list) {

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

}

}

}

**void** addFileMethod(String filename) **throws** IOException {

File filepath = **new** File(myFolder +"/"+filename);

String[] list = myFolder.list();

**for** (String file: list) {

**if** (filename.equalsIgnoreCase(file)) {

System.***out***.println("File " + filename + " already exists at " + myFolder);

**return**;

}

}

filepath.createNewFile();

System.***out***.println("File "+filename+" added to "+ myFolder);

}

**void** deleteFileMethod(String filename) {

File filepath = **new** File(myFolder +"/"+filename);

String[] list = myFolder.list();

**for** (String file: list) {

**if** (filename.equals(file) && filepath.delete()) {

System.***out***.println("File " + filename + " deleted from " + myFolder);

**return**;

}

}

System.***out***.println("Delete Operation failed. FILE NOT FOUND");

}

**void** searchFileMethod(String filename) {

String[] list = myFolder.list();

**for** (String file: list) {

**if** (filename.equals(file)) {

System.***out***.println("FOUND : File " + filename + " exists at " + myFolder);

**return**;

}

}

System.***out***.println("File Not found (FNF)");

}

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

System.***out***.println(***WELCOME\_TO\_MY\_COMPANY\_PROTAL***);

FinalProject menu = **new** FinalProject();

menu.firstView();

}

}