**Phase 1 :** Project

**Virtual Key for Your Repositories**

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.Arrays;

**import** java.util.Scanner;

**public** **class** LockedMe {

**static** String *DIRECTORY*;

File file\_name;

**public** LockedMe() {

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

file\_name = **new** File(*DIRECTORY*+"/files");

**if** (!file\_name.exists())

file\_name.mkdirs();

System.***out***.println("DIRECTORY : "+ file\_name.getAbsolutePath());

}

**private** **static** **final** String ***WELCOME\_PROMPT*** =

"\n LockedMe.com"+

"\n \n";

**private** **static** **final** String ***MAIN\_MENU\_PROMPT*** =

"\nMAIN MENU - Please Select any of the following : \n"+

"1 -> To View files in directory\n"+

"2 -> To Add, To Delete or To Search\n"+

"3 -> To Exit Program";

**private** **static** **final** String ***SECONDARY\_MENU\_PROMPT*** =

" \n Please Select any of the following: \n"+

" a -> To Add a file\n"+

" b -> To Delete a file\n"+

" c -> To Search a file\n"+

" d -> To Go Back";

**void** showPrimaryMenu() {

System.***out***.println(***MAIN\_MENU\_PROMPT***);

**try**{

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

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

**switch** (option){

**case** 1 : {

showFiles();

showPrimaryMenu();

}

**case** 2 : {

showSecondaryMenu();

}

**case** 3 : {

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

System.*exit*(0);

}

**default**: showPrimaryMenu();

}

}

**catch** (Exception e){

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

showPrimaryMenu();

}

}

**void** showSecondaryMenu() {

System.***out***.println(***SECONDARY\_MENU\_PROMPT***);

**try**{

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

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

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

**switch** (option){

**case** 'a' : {

System.***out***.print("Which File You Want To Add Please Enter a File Name : \n");

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

addFile(filename);

**break**;

}

**case** 'b' : {

System.***out***.print("Which File You Want To Delete Please Enter a File Name : \n");

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

deleteFile(filename);

**break**;

}

**case** 'c' : {

System.***out***.print(" Which File You Want To Search Please Enter a File Name : \n");

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

searchFile(filename);

**break**;

}

**case** 'd' : {

System.***out***.println("Going Back to MAIN menu");

showPrimaryMenu();

**break**;

}

**default** : System.***out***.println("Please enter a, b, c or d");

}

showSecondaryMenu();

}

**catch** (Exception e){

System.***out***.println("Please enter a, b, c or d");

showSecondaryMenu();

}

}

**void** showFiles() {

**if** (file\_name.list().length==0)

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

**else** {

String[] list = file\_name.list();

System.***out***.println("The files in "+ file\_name +" are :");

Arrays.*sort*(list);

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

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

}

}

}

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

File filepath = **new** File(file\_name +"/"+filename);

String[] list = file\_name.list();

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

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

System.***out***.println("File " + filename + " already exists at " + file\_name);

**return**;

}

}

filepath.createNewFile();

System.***out***.println("File "+filename+" added to "+ file\_name);

}

**void** deleteFile(String filename) {

File filepath = **new** File(file\_name +"/"+filename);

String[] list = file\_name.list();

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

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

System.***out***.println("File " + filename + " deleted from " + file\_name);

**return**;

}

}

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

}

**void** searchFile(String filename) {

String[] list = file\_name.list();

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

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

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

**return**;

}

}

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

}

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

System.***out***.println(***WELCOME\_PROMPT***);

LockedMe menu = **new** LockedMe();

menu.showPrimaryMenu();

}

}