**VIRTUAL KEY FOR YOUR REPOSITORIES PROJECT’S SOURCE CODE**

**Class name - FileOperations**

**package virtualKeyProjectWithPath;**

**import java.nio.file.\*;**

**import java.io.\*;**

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

**public class FileOperations {**

**static final String path = "C:\\Users\\riagrawal\\Desktop\\javaPractice\\javaLessons\\src\\virtualKeyProjectWithPath\\virtualKeyRepositoryFiles\\";**

**FileOperations(){**

**System.out.println("WELCOME TO COMPANY LOCKER’S VIRTUAL KEY FOR YOUR REPOSITORIES!!");**

**System.out.println("DEVELOPED BY – RICHA AGRAWAL");**

**System.out.println(); // adding extra space**

**}**

**public void welcomeScreen(){ // Displaying menu options**

**System.out.println("1. Show Files");**

**System.out.println("2. More options");**

**System.out.println("3. Exit");**

**}**

**public void showFiles() { // Displaying list of files in directory**

**File file = new File(path);**

**String[] ListofFiles = file.list();**

**Arrays.sort(ListofFiles);**

**System.out.println("Below is the file list - ");**

**for(String i : ListofFiles) {**

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

**}**

**}**

**public void moreOptions() {**

**int choice = displayOptions();**

**switch(choice) {**

**case 1:**

**addFile();**

**break;**

**case 2:**

**searchFile();**

**break;**

**case 3:**

**deleteFile();**

**break;**

**case 4:**

**welcomeScreen();**

**break;**

**default:**

**System.out.println("Invalid input sub menu");**

**}**

**}**

**private int displayOptions() {**

**System.out.println("1. Add file\n2. Search file\n3. Delete file\n4. Back ");**

**System.out.println("\nEnter your choice: ");**

**Boolean isValid = false;**

**int choice = 0;**

**while(!isValid) {**

**try{**

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

**choice = userInput.nextInt();**

**isValid = true;**

**}**

**catch(InputMismatchException e) {**

**System.out.println("Invalid input");**

**}**

**}**

**return choice;**

**}**

**public void addFile() { // Adding file in the directory**

**String Fname = getfileName();**

**String location = path+Fname+".txt";**

**File file = new File(location);**

**try {**

**Boolean flag = file.createNewFile();**

**if(flag) {**

**System.out.println("File added successfully”);**

**}**

**else System.out.println("File already exists");**

**} catch (IOException e) {**

**System.out.println("File addition unsuccessful");**

**e.printStackTrace();**

**}**

**moreOptions();**

**}**

**public void searchFile() { //Searching for a file in the directory**

**String Fname = getfileName();**

**String location = path+Fname+".txt";**

**File file = new File(location);**

**if(!(file.exists())) {**

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

**}**

**else {**

**System.out.println("File found at - " + file.getAbsolutePath());**

**}**

**moreOptions();**

**}**

**public void deleteFile() { // Deleting a file from the directory**

**String Fname = getfileName();**

**String location = path+Fname+".txt";**

**File file = new File(location);**

**if(file.delete()) {**

**System.out.println("File removed successfully");**

**}**

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

**moreOptions();**

**}**

**public String getfileName() { //Getting file name from user**

**System.out.println("Enter file name :");**

**Boolean isValidInput = false;**

**String Fname = null;**

**while(!isValidInput) {**

**try{**

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

**Fname = fileName.nextLine();**

**isValidInput = true;**

**}**

**catch (InputMismatchException e) {**

**System.out.println("Please enter valid file name");**

**}**

**}**

**return Fname;**

**}**

**}**

**Class Name – mainScreen**

**package** virtualKeyProjectWithPath;

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

**public** **class** mainScreen {

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

FileOperations screen = **new** FileOperations();

screen.welcomeScreen();

Boolean quit = **true**;

**int** choice = 0;

**while**(quit) {

**try** {

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

System.***out***.println("\nEnter your choice: ");

choice = userChoice.nextInt();

}

**catch**(InputMismatchException e){

System.***out***.println("Invalid Input..Try again!!");

**continue**;

}

**switch**(choice) {

**case** 1 :

screen.showFiles();

**break**;

**case** 2:

screen.moreOptions();

**break**;

**case** 3:

System.***out***.println("\nProgram closed!!");

quit = **false**;

**break**;

**default** :

System.***out***.println("Invalid input..Try again!!");

}

}

}

}