SOURCE CODE

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import java.io.File;
import java.io.IOException;
import java.util.Scanner;

//Main class
public class DataCenter {

//Creating a folder
public void folderCreation(String input) throws IOException{
File file=new File(input);
DataCenter dca=new DataCenter();  //dca -- dataCenter object
if(file.mkdir()) {
System.out.println(file.getAbsolutePath() + "\nFolder is Created");
}else System.out.println("\nFolder already created with the same name ");
dca.secondaryMenu();
}

//To check folder is present or not
public void mainFolderCheck(String input) throws IOException{
File file=new File(input);
if(file.mkdir()) {    //mkdir -make directory method from file class
System.out.println(file.getAbsolutePath() + " \nFolder is Created");
}else System.out.println("\nFolder name Main already exist");
}

//To delete a folder
public void deleteFolder(String input) throws IOException{
File folder=new File(input);
DataCenter dca=new DataCenter();
if (folder.delete()){       //.delete -- to delete given folder name
System.out.println(input+" \nfolder deleted ");
}else System.out.println(input+" \nDoes not exist ");
dca.secondaryMenu();    //To call a secondaryMenu after the operation with dca object
}

//To check whether want to create file or folder and to delete file or folder
public void FileOrFolderOperation(int integer) throws IOException {
String path= "C:\\Users\\HP\\eclipse-workspace\\Project\\src\\main\\" ;
DataCenter dca=new DataCenter();
if(integer==1){
File file=new File(path);
if(file.isDirectory()) {     //isDirectory -- checking given input is directory or not
System.out.println("Please enter 1 for folder creation "
+ "\n enter 2 for file creation");
Scanner sc=new Scanner(System.in);
int i=sc.nextInt();
switch(i) {
case 1:System.out.println("Kindly enter the name of the folder name you want to
create");
Scanner sc1=new Scanner(System.in);  //sc1- object.
String input = path + sc1.next();
dca.folderCreation(input);break;
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case 2: System.out.println("Kindly enter the name of the  File name you want to create
with extensions");
Scanner sc2=new Scanner(System.in); //sc2 - object.
String input1 = path + sc2.next();
dca.createFile(input1); break;
default: System.out.println("please enter either 1 or 2");dca.secondaryMenu();break;
}
Scanner scanner1=new Scanner(System.in);
String input=path+scanner1.next();
System.out.println("Redirected to Secondary Menu..........");
dca.secondaryMenu();
}
}else {
File file=new File(path);
if(file.isDirectory()) {
System.out.println("Please enter 1 for folder Deletion "
+ "\n enter 2 for file Deletion");
Scanner sc=new Scanner(System.in);
int i=sc.nextInt();
switch(i) {
case 1:System.out.println("Kindly enter the name of the folder name you want to
delete");
Scanner sc1=new Scanner(System.in);
String input = path + sc1.next();
dca.deleteFolder(input);break;
case 2:System.out.println("Kindly enter the name of the  File name you want to delete");
Scanner sc2=new Scanner(System.in);
String input1 = path + sc2.next();
dca.deleteFile(input1); break;
default: System.out.println("please enter either 1 or 2");dca.secondaryMenu();break;
}
Scanner scanner1=new Scanner(System.in);
String input=path+scanner1.next();
System.out.println("Redirected to Secondary Menu..........");
dca.secondaryMenu();
}
}
}

//To Create a file
public void createFile(String input) throws IOException {
String fileName=input;
DataCenter dca=new DataCenter();
try {
File file = new File(fileName);
if (file.createNewFile()){
System.out.println(file.getAbsolutePath()+" \n file is created ");
}else { System.out.println(fileName+" \nalready exists");
}
} catch(IOException exception) {
System.out.println("An unexpected error is occurred.");
exception.printStackTrace();
}dca.secondaryMenu();
}
```

```
//To Delete a file
public void deleteFile(String input) throws IOException{
String fileName=input;
File file = new File(fileName);
DataCenter dca=new DataCenter();
if (file.delete()){
System.out.println(file.getAbsolutePath()+" \n file is Deleted ");
}else {
System.out.println(fileName+" \nNot available");
}dca.secondaryMenu();
}

//To give all the files present in main folder
public void listFilesInsideMainFolder() throws IOException {
DataCenter dca=new DataCenter();
String path= "C:\\Users\\HP\\eclipse-workspace\\Project\\src\\main\\";
File folder=new File(path);
if (folder.isDirectory()){
String[] list=folder.list();
for(int i=0;i<list.length;i++){
System.out.println(list[i]);
}
}System.out.println("Redirected to main Menu...........");
dca.mainMenuDisplay();
}

//To search a file with given name in main folder and provide data.
public void searchFilesInaFolder() throws IOException {
DataCenter dca = new DataCenter();
String path = ("C:\\Users\\HP\\eclipse-workspace\\Project\\src\\main\\");
System.out.println("Kindly enter the file name you want search");
Scanner scanner = new Scanner(System.in);
String fileName = scanner.next();
File file = new File(path);
String[] list = file.list();
if (list == null) {
System.out.println("Folder is empty");
} else {
for (int i = 0; i < list.length; i++) {
String files = list[i];
if (files.equalsIgnoreCase(fileName)) {
System.out.println(files);
}
}
}
System.out.println("Redirected to Secondary Menu...........");
dca.secondaryMenu();
}

//Terminating an application or console
public void closeApplication(){
System.out.println("Program Terminated successfully ");
}
s
```

```
//Primary or main menu
public void mainMenuDisplay() throws IOException {

System.out.println("Please select the operations on files and folders "+'\n'+
"Enter integer 1 for List all the files in the Folder "+'\n'+
"Enter integer 2 To Display the secondary menu "+'\n'+
"Enter integer 3 for exit or terminate the program");

Scanner sc=new Scanner(System.in);

int integer=sc.nextInt();
DataCenter dca=new DataCenter();
switch(integer){   //switch case for main menu
case 1:dca.listFilesInsideMainFolder();break;
case 2:dca.secondaryMenu();break;
case 3:      dca.closeApplication();break;
default:System.out.println("Kindly_enter_the_valid_input_and_retry");
dca.mainMenuDisplay();break;
}
}

//Secondary menu
public void secondaryMenu() throws IOException {
System.out.println("Please select the below operations on files/folders "+'\n'+
"Enter integer 1 for folder/file creation"+'\n'+
"Enter integer 2 for folder/file deletion"+'\n'+
"Enter integer 3 for to search files in a folder "+'\n'+
"Enter integer 4 for go back to Main Menu "+'\n'+
"Enter integer 5 for exit the application ");
Scanner input1=new Scanner(System.in);
int integer= input1.nextInt();
DataCenter dca=new DataCenter();
switch(integer){   //Switch case for secondary menu
case 1:dca.FileOrFolderOperation(integer);break;
case 2:dca.FileOrFolderOperation(integer);break;
case 3:dca.searchFilesInaFolder();break;
case 4:dca.mainMenuDisplay();break;
case 5:dca.closeApplication();break;

default:System.out.println("You have entered the wrong input," +
" kindly enter integers between 1 to 8");dca.secondaryMenu();break;
}
}

//Program main.. Entering point
public static void main (String args[]) throws IOException {
DataCenter dca=new DataCenter();
dca.mainFolderCheck("C:\\Users\\HP\\eclipse-workspace\\Project\\src\\main");
System.out.println("Welcome to My project");
dca.mainMenuDisplay();
}
}
```