

OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 17

Aim

Program to list the sub directories and files in a given directory and also search for a file name.

Procedure

```
import java.io.File;

import java.io.*;

import java.util.*;

public class p1 {

    public static final String RESET = "\033[0m";
    public static final String RED = "\033[0;31m";
    public static final String TEXT_RESET = "\u001B[0m";
    public static final String TEXT_BLACK = "\u001B[30m";
    public static final String TEXT_RED = "\u001B[31m";

    static void RecursivePrint(File[] arr, int index, int level, String searchfor) {

        if (index == arr.length)

            return;

        for (int i = 0; i < level; i++)

            System.out.print("\t");

        if (arr[index].getName().toLowerCase().contains(searchfor))

            System.out.print(TEXT_RED);

        else

            System.out.print(RESET);

        if (arr[index].isFile())

            System.out.println(arr[index].getName());
```

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```
else if (arr[index].isDirectory()) {  
    System.out.println "[" + arr[index].getName() + "];"  
    RecursivePrint(arr[index].listFiles(), 0, level + 1, searchfor);  
}  
RecursivePrint(arr, ++index, level, searchfor);  
}  
  
public static void main(String[] args) {  
    Scanner scan = new Scanner(System.in);  
    System.out.println("Enter the directory path");  
    String maindirpath = scan.nextLine();  
    System.out.println("Enter the file/directory name to search");  
    String searchfor = scan.nextLine();  
    File maindir = new File(maindirpath);  
    if (maindir.exists() && maindir.isDirectory()) {  
        File arr[] = maindir.listFiles();  
  
        System.out.println("#####")  
    ;  
        System.out.println("Files from main directory" + maindir);  
  
        System.out.println("#####")  
    ;  
        RecursivePrint(arr, 0, 0, searchfor.toLowerCase()); //  
array,index,level,search  
    }  
    }  
}
```

Output

```
D:\java>javac p1.java

D:\java>java p1
Enter the directory path
D:\java
Enter the file/directory name to search
p1.java
#####
Files from main directoryD:\java
#####
←[0mbill.class
←[0mbiller.class
←[0mbiller.java
←[0mcalc.class
←[0mp1.class
←[31mp1.java
←[0mQ7 .java
←[0mresult.class
←[0mresult.java
←[0msports.class
←[0mstudent.class
```