OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 17

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

 {

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());
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());
```

```
}

}

}
```

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
###############################################
←[0marea.class
←[0mcir.class
←[0mEmployee.class
←[0mMatrixAdditionExample.class
←[0mMatrixAdditionExample.java
←[0mMatrixMultiplicationExample.java
←[0mp1.class
←[31mp1.java
←[0mperson.class
←[0mrect.class
←[0mTeacher2.class
←[0mTeacher2.java
←[0mtest7 .java
←[0mtest7.class
←[0mtest7.java

D:\java>
```