OBJECT-ORIENTED PROGRAMMING LAB

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Aim

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

Program

```
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());
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 Screenshot

```
D:\>javac p1.java

D:\>java p1
Enter the directory path
C:\Users\Student\Documents\cycle 5
Enter the file/directory name to search
6.html
################################################
Files from main directoryC:\Users\Student\Documents\cycle 5
################################################
←[0m1.html
←[0m2.html
←[0m3.html
←[0m4.html
←[0m5.html
←[31m6.html
←[0m7.html
←[0m8.html
←[0m9.html
←[0mmathfunc.html

D:\>
```