OBJECT ORIENTED PROGRAMING LAB

Experiment No.: 35

<div style="border:1px solid">

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Batch: S2 MCA

Date: 31-05-2022

</div>

Aim

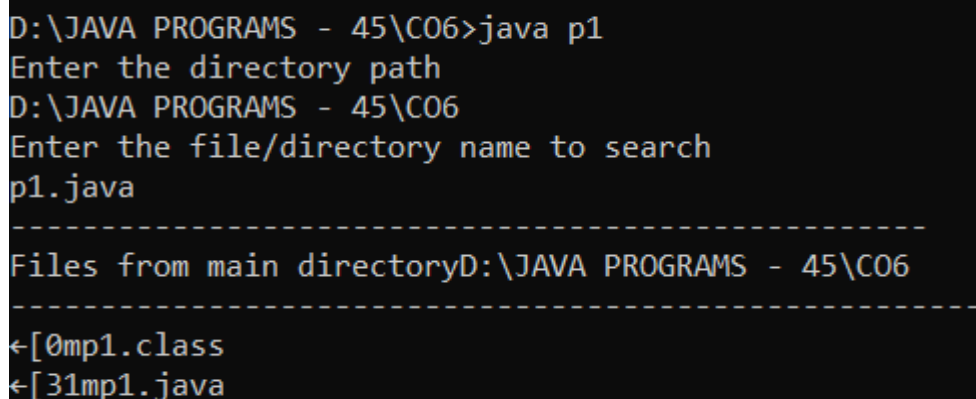Program to list the sub directories and files in a given directory and also search for a file name.

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());

else if (arr[index].isDirectory()) {

```java
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