

OBJECT-ORIENTED PROGRAMMING LAB**Experiment No.: 44****Name: Vishnu Vijayakumar****Roll No: 53****Batch: MCA - B****Date: 30-05-2022****Aim**

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

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

```
E:\JAVA PROGRAMS>javac p1.java

E:\JAVA PROGRAMS>java p1
Enter the directory path
C:\Users\Pavilian\Desktop\JAVA LAB\CO1
Enter the file/directory name to search
javaexp3
#####
Files from main directoryC:\Users\Pavilian\Desktop\JAVA LAB\CO1
#####
←[0m5. CPU.pdf
←[0mCO1 - Shortcut.lnk
←[0mjava exp2.pdf
←[0mjava exp4.pdf
←[0mjavaexp1.pdf
←[31mjavaexp3.pdf

E:\JAVA PROGRAMS>_
```