

OBJECT ORIENTED PROGRAMMING LAB**Experiment No: CO6-1****Name: Manya Madhu****Roll No: 17****Batch: S2 RMCA B****Date: 30-05-2022****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()) {
```

```
        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:\Share>java p1
Enter the directory path
D:\Share
Enter the file/directory name to search
read.java
#####
Files from main directoryD:\Share
#####
←[0mcopy.class
←[0mcopy.java
←[0moutput.txt
←[0mp1.class
←[0mp1.java
←[0mread.class
←[31mread.java
D:\Share>
```