OBJECT ORIENTED PROGRAMMING LAB

Name: Mathew Sebastian

Roll No: 18

Batch: S2 RMCA B

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Experiment No: (CO6) 1

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());
}
}
}
```

Output Screenshot

```
D:\dck>javac p1.java

D:\dck>java p1
Enter the directory path
D:\dck
Enter the file/directory name to search
p1
################################################
Files from main directoryD:\dck
################################################
←[0mcopy.class
←[0mcopy.java
←[0mdoc1.txt
←[0m[docker]
        ←[0m1 dck.png
        ←[0m10dck.png
        ←[0m2 dck.png
        ←[0m4dck.png
        ←[0m5dck.png
        ←[0m6dck.png
        ←[0m7dck.png
        ←[0m8dck.png
        ←[0m9dck.png
←[0mdocker-20220523T092401Z-001.zip
←[0mevennumbers.txt
←[0mLinux  -  23.docx
←[0mLinux  -  23.pdf
←[0mnumbers.txt
←[0moddeven.class
```