OBJECT ORIENTED PROGRAMING LAB

Experiment No.: 17

Name : Swetha Prakash

Roll No : 46

Batch : B

Date : 31-05-22

Aim

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

Source Code

```
import java .io.File;
import java.io.*;
import java.util.*;

public class ListSearchFile{
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() + "]");
```
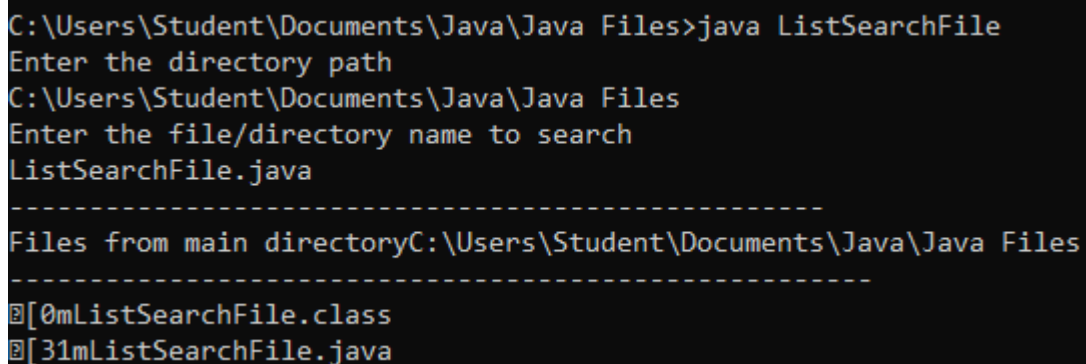
```
                RecursivePrint(arr[index].listFiles(), 0, level + 1, searchfor);
        }
        RecursivePrint(arr, ++index, level, searchfor);
}


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