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**Batch: RMCA S2B**

**Date: 3-6-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: CO6\_Q1**

**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 File1

{

public static int flag=0;

static void RecursivePrint(File[] arr, int index, int level, String searchfor)

{

// exit condition

if (index == arr.length)

return;

for (int i = 0; i < level; i++)

System.out.print("=>");

if (arr[index].getName().toLowerCase().contains(searchfor))

flag=1;

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 in = new Scanner(System.in);

System.out.println("Enter the directory path");

String maindirpath = in.nextLine();

System.out.println("Enter the file/directory name to search");

String searchfor = in.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

}

if(flag==1)

{

System.out.println("file is found");

}

else

{

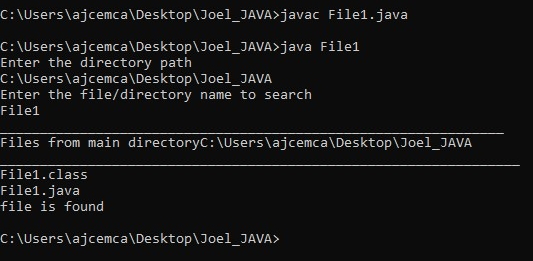
System.out.println("file doesnot found");

}

}

}

**Output Screenshot**

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