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

```
import java.io.File;
import java.util.*;
import java.io.*;
public class p1 {
   public static final String RED="\033[0;31m";
   public static final String RESET="\033[0m";
   static void RecursivePrint(File[] arr, int index, int level, String search
for) {
       // exit condition
       if (index == arr.length)
           return;
       // space for internbal level
       for (int i = 0; i < level; i++)</pre>
           System.out.print("\t");
           if(arr[index].getName().toLowerCase().contains(searchfor))
          System.out.print(RED);
           else
              System.out.print(RESET);
       // for files
       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("Files from main directory" + maindir);
           ###");
```

```
RecursivePrint(arr, 0, 0, searchfor.toLowerCase()); // array,index
,level,search
     }
}
```

2. Write a program to write to a file, then read from the file and display the contents on the console.

```
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.io.*;
import java.util.*;
import java.io.File;
class read {
    public static void main(String[] args) {
       String var = "";
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the text to create file : type exit to stop"
);
        while (!var.endsWith("exit\n"))
            var = var + scan.nextLine()+"\n";
        try {
            File file = new File("output.txt");
            FileWriter fw = new FileWriter(file);
            fw.write(var);
            fw.close();
            System.out.println("Reading File content");
            FileReader fr = new FileReader("output.txt");
            String str = "";
            int i;
            while ((i = fr.read()) != -1) {
                // Storing every character in the string
                str += (char) i;
            }
            System.out.println(str);
            fr.close();
        } catch (IOException e) {
            System.out.println("There are some exception");
        }
    }
}
```