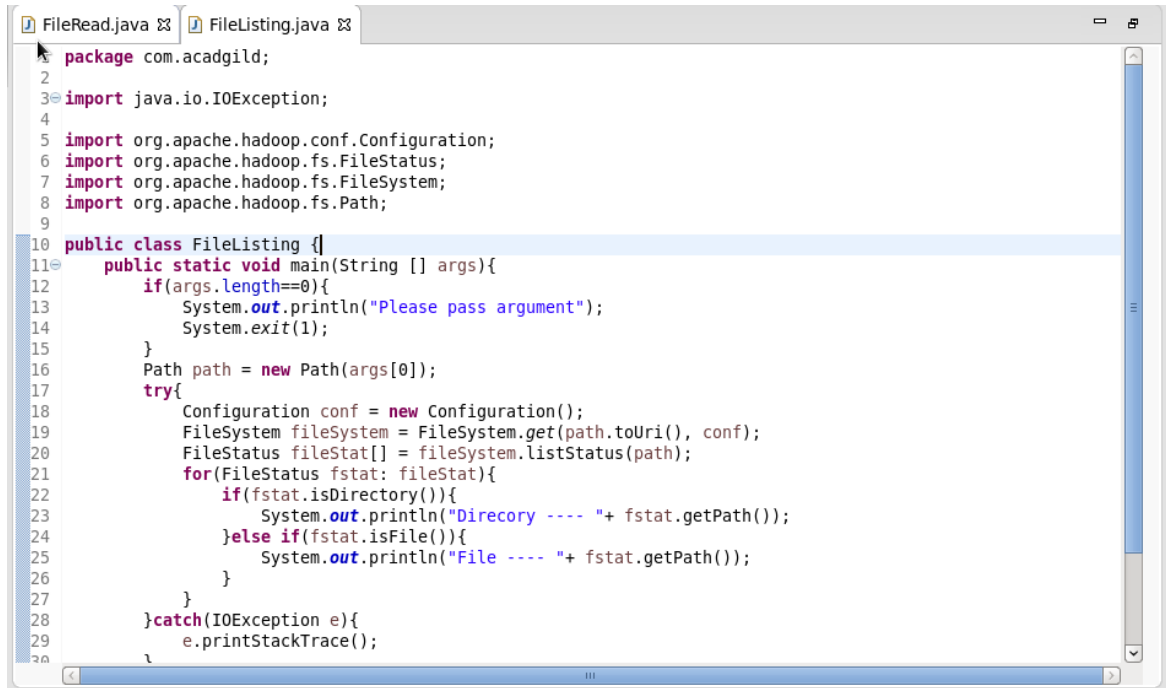


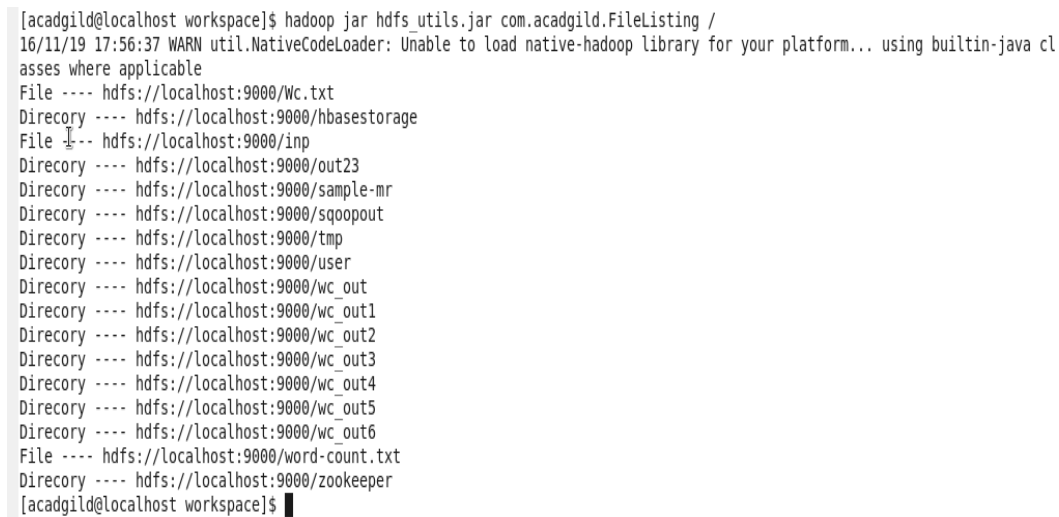
## Task1:

### Source Code:



```
1 package com.acadgild;
2
3 import java.io.IOException;
4
5 import org.apache.hadoop.conf.Configuration;
6 import org.apache.hadoop.fs.FileStatus;
7 import org.apache.hadoop.fs.FileSystem;
8 import org.apache.hadoop.fs.Path;
9
10 public class FileListing {
11     public static void main(String [] args){
12         if(args.length==0){
13             System.out.println("Please pass argument");
14             System.exit(1);
15         }
16         Path path = new Path(args[0]);
17         try{
18             Configuration conf = new Configuration();
19             FileSystem fileSystem = FileSystem.get(path.toUri(), conf);
20             FileStatus fileStat[] = fileSystem.listStatus(path);
21             for(FileStatus fstat: fileStat){
22                 if(fstat.isDirectory()){
23                     System.out.println("Direcory ---- "+ fstat.getPath());
24                 }else if(fstat.isFile()){
25                     System.out.println("File ---- "+ fstat.getPath());
26                 }
27             }
28         }catch(IOException e){
29             e.printStackTrace();
30         }
```

### Result:



```
[acadgild@localhost workspace]$ hadoop jar hdfs utils.jar com.acadgild.FileListing /
16/11/19 17:56:37 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
File ---- hdfs://localhost:9000/Wc.txt
Direcory ---- hdfs://localhost:9000/hbasestorage
File ---- hdfs://localhost:9000/inp
Direcory ---- hdfs://localhost:9000/out23
Direcory ---- hdfs://localhost:9000/sample-mr
Direcory ---- hdfs://localhost:9000/sqoopout
Direcory ---- hdfs://localhost:9000/tmp
Direcory ---- hdfs://localhost:9000/user
Direcory ---- hdfs://localhost:9000/wc_out
Direcory ---- hdfs://localhost:9000/wc_out1
Direcory ---- hdfs://localhost:9000/wc_out2
Direcory ---- hdfs://localhost:9000/wc_out3
Direcory ---- hdfs://localhost:9000/wc_out4
Direcory ---- hdfs://localhost:9000/wc_out5
Direcory ---- hdfs://localhost:9000/wc_out6
File ---- hdfs://localhost:9000/word-count.txt
Direcory ---- hdfs://localhost:9000/zookeeper
[acadgild@localhost workspace]$
```

## Task2:

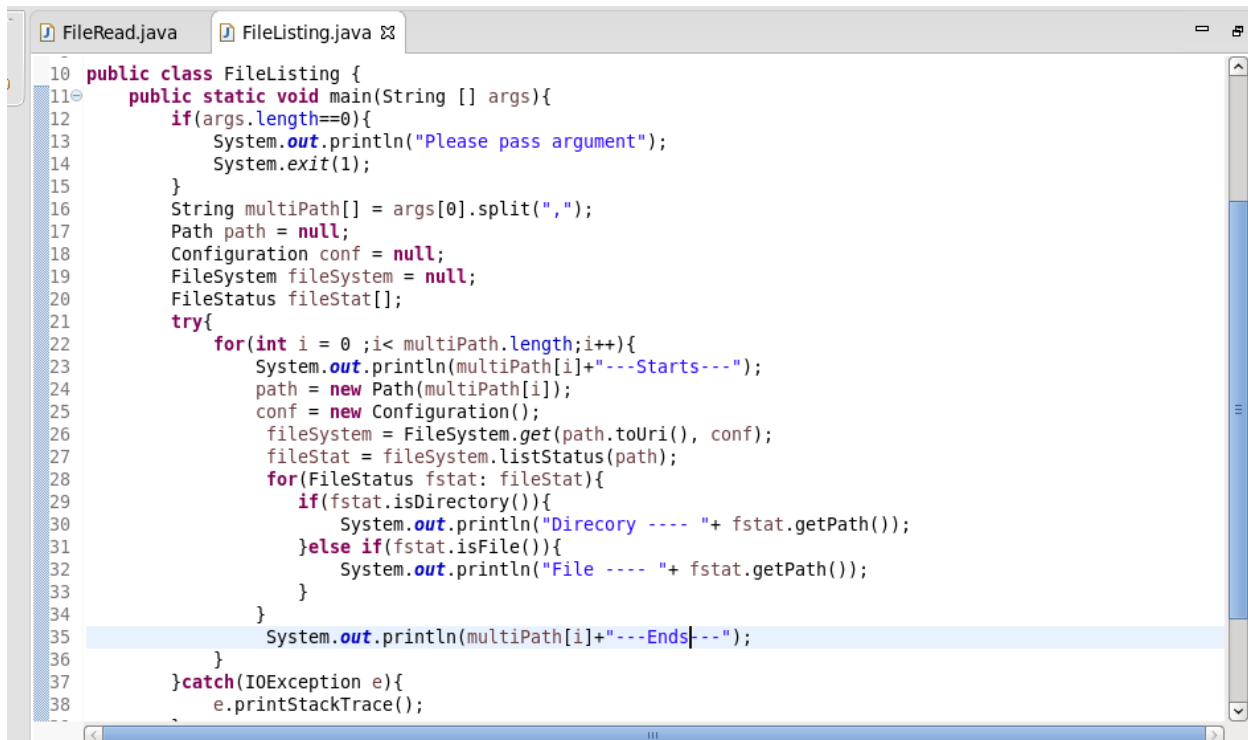
### Source Code:

```
FileRead.java *FileListing.java 8
3 import java.io.IOException;
4
5 import org.apache.hadoop.conf.Configuration;
6 import org.apache.hadoop.fs.FileStatus;
7 import org.apache.hadoop.fs.FileSystem;
8 import org.apache.hadoop.fs.Path;
9
10 public class FileListing {
11     public static void main(String [] args){
12         if(args.length==0){
13             System.out.println("Please pass argument");
14             System.exit(1);
15         }
16         Path path = new Path(args[0]);
17         try{
18             Configuration conf = new Configuration();
19             FileSystem fileSystem = FileSystem.get(path.toUri(), conf);
20             FileStatus fileStat[] = fileSystem.listStatus(path);
21             while(true){
22                 for(FileStatus fstat: fileStat){
23                     if(fstat.isDirectory()){
24                         System.out.println("Direcory ---- " + fstat.getPath());
25                     }else if(fstat.isFile()){
26                         System.out.println("File ---- " + fstat.getPath());
27                     }
28                 }
29             }
30         }catch(IOException e){
31             e.printStackTrace();
32         }
33     }
34 }
```

### Result: Reccursive

```
File ---- hdfs://localhost:9000/word-count.txt
Direcory ---- hdfs://localhost:9000/zookeeper
File ---- hdfs://localhost:9000/Wc.txt
Direcory ---- hdfs://localhost:9000/hbasestorage
File ---- hdfs://localhost:9000/inp
Direcory ---- hdfs://localhost:9000/out23
Direcory ---- hdfs://localhost:9000/sample-mr
Direcory ---- hdfs://localhost:9000/sqoopout
Direcory ---- hdfs://localhost:9000/tmp
Direcory ---- hdfs://localhost:9000/user
Direcory ---- hdfs://localhost:9000/wc_out
Direcory ---- hdfs://localhost:9000/wc_out1
Direcory ---- hdfs://localhost:9000/wc_out2
Direcory ---- hdfs://localhost:9000/wc_out3
Direcory ---- hdfs://localhost:9000/wc_out4
Direcory ---- hdfs://localhost:9000/wc_out5
Direcory ---- hdfs://localhost:9000/wc_out6
File ---- hdfs://localhost:9000/word-count.txt
Direcory ---- hdfs://localhost:9000/zookeeper
File ---- hdfs://localhost:9000/Wc.txt
Direcory ---- hdfs://localhost:9000/hbasestorage
File ---- hdfs://localhost:9000/inp
Direcory ---- hdfs://localhost:9000/out23
Direcory ---- hdfs://localhost:9000/sample-mr
Direcory ---- hdfs://localhost:9000/sqoopout
Direcory ---- hdfs://localhost:9000/tmp
Direcory ---- hdfs://localhost:9000/user
Direcory ---- hdfs://localhost:9000/wc_out
Direcory ---- hdfs://localhost:9000/wc_out1
Direcory ---- hdfs://localhost:9000/wc_out2
Direcory ---- hdfs://localhost:9000/wc_out3
```

### Task3:



```
10 public class FileListing {
11     public static void main(String [] args){
12         if(args.length==0){
13             System.out.println("Please pass argument");
14             System.exit(1);
15         }
16         String multiPath[] = args[0].split(",");
17         Path path = null;
18         Configuration conf = null;
19         FileSystem fileSystem = null;
20         FileStatus fileStat[];
21         try{
22             for(int i = 0 ;i< multiPath.length;i++){
23                 System.out.println(multiPath[i]+"---Starts---");
24                 path = new Path(multiPath[i]);
25                 conf = new Configuration();
26                 fileSystem = FileSystem.get(path.toUri(), conf);
27                 fileStat = fileSystem.listStatus(path);
28                 for(FileStatus fstat: fileStat){
29                     if(fstat.isDirectory()){
30                         System.out.println("Direcory ---- " + fstat.getPath());
31                     }else if(fstat.isFile()){
32                         System.out.println("File ---- " + fstat.getPath());
33                     }
34                 }
35                 System.out.println(multiPath[i]+"---Ends---");
36             }
37         }catch(IOException e){
38             e.printStackTrace();
39         }
40     }
41 }
```

### Result:

```
[acadgild@localhost workspace]$ hadoop jar hdfs_utils.jar com.acadgild.FileListing ./,user,/user/acadgild
/---Starts---
16/11/19 18:44:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
File ---- hdfs://localhost:9000/Wc.txt
Direcory ---- hdfs://localhost:9000/hbasestorage
File ---- hdfs://localhost:9000/inp
Direcory ---- hdfs://localhost:9000/out23
Direcory ---- hdfs://localhost:9000/sample-mr
Direcory ---- hdfs://localhost:9000/sqoopout
Direcory ---- hdfs://localhost:9000/tmp
Direcory ---- hdfs://localhost:9000/user
Direcory ---- hdfs://localhost:9000/wc_out
Direcory ---- hdfs://localhost:9000/wc_out1
Direcory ---- hdfs://localhost:9000/wc_out2
Direcory ---- hdfs://localhost:9000/wc_out3
Direcory ---- hdfs://localhost:9000/wc_out4
Direcory ---- hdfs://localhost:9000/wc_out5
Direcory ---- hdfs://localhost:9000/wc_out6
File ---- hdfs://localhost:9000/word-count.txt
Direcory ---- hdfs://localhost:9000/zookeeper
/---Ends---
/user---Starts---
Direcory ---- hdfs://localhost:9000/user/acadgild
Direcory ---- hdfs://localhost:9000/user/hive
Direcory ---- hdfs://localhost:9000/user/prateek
/user---Ends---
/user/acadgild---Starts---
File ---- hdfs://localhost:9000/user/acadgild/Customers.csv
Direcory ---- hdfs://localhost:9000/user/acadgild/oozie-acad
Direcory ---- hdfs://localhost:9000/user/acadgild/share
File ---- hdfs://localhost:9000/user/acadgild/word-count.txt
/user/acadgild---Ends---
[acadgild@localhost workspace]$
```