Task 2: Modify the previous program to list all the files and sub-directories in the HDFS path recursively.

import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.fs.FileStatus;

import org.apache.hadoop.fs.FileSystem;

import org.apache.hadoop.fs.Path;

public class AllFilesRecursively

{

public static void listFiles(FileSystem fs) throws IOException

{

Path path = new Path("/user/acadgild");

FileStatus[] status = fs.listStatus(path);

System.out.println("These are the files and directory and file within directory in this location :/user/acadgild/");

for(FileStatus st : status)

{

System.out.println(" "+st.getPath().toString());

FileStatus[] status2 = fs.listStatus(st.getPath());

if(!fs.isFile(st.getPath()))

{

for(FileStatus st2 : status2)

System.out.println(" "+st2.getPath().toString());

}

}

}

public static void main(String args[]) throws IOException

{

Configuration conf = new Configuration();

conf.addResource(new Path("/usr/local/hadoop-2.6.0/etc/hadoop/core-site.xml"));

conf.addResource(new Path("/usr/local/hadoop-2.6.0/etc/hadoop/hdfs-site.xml"));

FileSystem fs = FileSystem.get(conf);

listFiles(fs);

fs.close();

}

}