Compressing and Uncompressing File

The DeflaterOutputStream and InflaterInputStream classes provide mechanism to compress and uncompress the data in the deflate compression format.

***DeflaterOutputStream class:***

The DeflaterOutputStream class is used to compress the data in the deflate compression format. It provides facility to the other compression filters, such as GZIPOutputStream.

Size decreases as well as format also changes, so help in saving our data.

Example of Compressing file using DeflaterOutputStream class

In this example, we are reading data of a file and compressing it into another file using DeflaterOutputStream class. You can compress any file, here we are compressing the Deflater.java file

import java.io.\*;

import java.util.zip.\*;

class Compress{

public static void main(String args[]){

try{

FileInputStream fin=new FileInputStream("Deflater.java"); //here we used our file from the same project and copied where our file exists

FileOutputStream fout=new FileOutputStream("def.txt");

DeflaterOutputStream out=new DeflaterOutputStream(fout);//wrapped fout i.e., def in out

int i;

while((i=fin.read())!=-1){ //fin.read se ascii me convert hoga(e.g., A that oh 65 bana condition true coz !=-1)

out.write((byte)i); //convert in byte code character by character and saving in def.txt

out.flush(); //clearing all intermediate wastage except the incoming character

}

fin.close();

out.close();

}catch(Exception e){System.out.println(e);}

System.out.println("rest of the code");

}

}

***InflaterInputStream class:***

The InflaterInputStream class is used to uncompress the file in the deflate compression format. It provides facility to the other uncompression filters, such as GZIPInputStream class.

Example of uncompressing file using InflaterInputStream class

In this example, we are decompressing the compressed file def.txt into D.java .

import java.io.\*;

import java.util.zip.\*;

class UnCompress{

public static void main(String args[]){

try{

FileInputStream fin=new FileInputStream("def.txt"); //passed file is that one which is already compressd

InflaterInputStream in=new InflaterInputStream(fin);

FileOutputStream fout=new FileOutputStream("D.java"); //where we want to see the code(uncompressing)

int i;

while((i=in.read())!=-1){ //byte ki ascii value aayegi toh saving it into i(in.read-doing job of decryption to encryption task)

fout.write((byte)i);

fout.flush();

}

fin.close();

fout.close();

in.close();

}catch(Exception e){System.out.println(e);}

System.out.println("rest of the code");

}

}