**Python program using Dictionaries:**

import json

MusicFestival={

"Omega festival":{"Band X":"RecordLabel1"},

"":{"Band Y":"RecordLabel1"},

"Alpha festival":{"Band A":"RecordLabel2"},

"Beta festival":{"Band A":"RecordLabel2"}

}

Band={

"Band X":"RecordLabel1",

"Band Y":"RecordLabel1",

"Band A":"RecordLabel2"

}

newlist=[]

for k,v in Music.items():

if(type(v)) is dict:

for t,c in v.items():

rec=c

band=t

festival=k

newlist.append(c+" "+t+" "+k )

newlist.sort()

print(newlist)

**Java Program using HashMap:**

import java.util.HashMap;

import java.util.ArrayList;

import java.util.Collections;

public class Main {

public static void main(String[] args) {

HashMap<String,String> Music= new HashMap<String,String>();

HashMap<String,String> Band=new HashMap<String,String>();

Music.put("omega festival","Band X");

Music.put("Alpha festival","Band A");

Music.put("Beta festival","Band A");

Music.put("","Band Y");

Band.put("Band X","recordLabel1");

Band.put("Band Y","recordLabel1");

Band.put("Band A","recordLabel2");

for(String i:Music.values())

{

for(String j:Band.keySet())

{

for(String k:Music.keySet())

{

for(String l:Band.values())

{

if(i==j)

{

System.out.println(l);

System.out.println(j);

System.out.println(k);

}

}

}

}

}

}

}

**Python program using class:**

import json

from typing import NamedTuple

from operator import attrgetter

def multi\_sort(data,specs):

for key,reverse in reversed(specs):

data.sort(key=attrgetter(key),reverse=reverse)

return data

class Music(NamedTuple):

festival:str

band:str

RecordLabel:str

m1=Music('omega festival','Band X','RecordLabel1')

m2=Music('','Band Y','RecordLabel1')

m3=Music('Alpha festival','Band A','RecordLabel2')

m4=Music('Beta festival','Band A','RecordLabel2')

Musics=[m1,m2,m3,m4]

multi\_sort(Musics,(('RecordLabel',False),('band',False),('festival',False)))

for Music in Musics:

print(Music)