```java
import java.util.*;
import java.util.Map.Entry;

class Subscriber
{
    int id;
    String name;

    Subscriber(int id, String Subscriber)
    {
        this.id=id;
        this.name = name;
    }
    public int get_id()
    {
        return id;
    }
    public String get_value()
    {
        return name;
    }
    public String toString()
    {
        return id+" "+name;
    }
    public int hashCode()
```

```java
        {
            return id;
        }
        public boolean equals(Object obj)
        {
            if (this ==obj) {
                return true;
            }
            if (obj==null || getClass()!=obj.getClass())
                return false;
            Subscriber that =(Subscriber )obj;
            return id==that.id && Objects.equals(name ,
that.name);


        }


}


public class MapDemo {

    public static void main(String[] args) {
        Subscriber s1 = new Subscriber (101, "abc");
        Subscriber s2 = new Subscriber (102, "xyz");
        Subscriber s3 = new Subscriber (103, "pqr");
        Subscriber s4 = new Subscriber (104, "stu");

        Map<String, Subscriber> m =new HashMap<>();
        m.put("1020a", s1);
```

```java
        m.put("1020b", s1);

        m.put("1020c", s1);

        m.put("1020d", s1);

        m.put("2020a", s2);

        m.put("2020b", s2);

        m.put("2020c", s2);

        m.put("3020a", s3);

        m.put("3020b", s3);

        m.put("4020b", s4);



        System.out.println(m);

        System.out.println();

        Map<Subscriber , List<String>> sub = new
HashMap<>();

        for (Map.Entry<String,Subscriber>entry :
m.entrySet())

        {

            String deviceid = entry.getKey();

            Subscriber s = entry.getValue();

            if(sub.containsKey(s))

            {

                sub.get(s).add(deviceid);



            }

            else

            {

                List<String>deviceList = new
ArrayList<>();
```

```java
                deviceList.add(deviceid);
                sub.put(s,deviceList );
            }
        }


        System.out.println(sub);




    }


}
```