**Task 4:**

Let’s see the example of diamond problem,

There is a main category which is Tech Gadgets. Tech Gadgets includes all the gadgets like Mobile, TV, Laptop etc. Two subcategories i.e., Mobile Phones and TV which are derived from our main category Tech Gadgets. We all are familiar with Mobile Phones and TV. And then there is Smart TV category which is derived from both Mobile Phones and TV. This Smart TV can do everything what these Mobile Phone and TV does. You can access to the internet and do everything what Mobile does.

**Tech  
Gadgets**

**TV**

**Smart TV**

**Mobile Phones**

Let’s see another example of diamond problem,

There is a main category which is Tech Gadgets. Tech Gadgets includes all the gadgets like Mobile, TV, Laptop etc. Two subcategories i.e., Mobile Phones and Digital Watches which are derived from our main category Tech Gadgets. We all are familiar with Mobile Phones and Digital Watches display time in the form of 0s and 1s and you can set timer on it, set alarm on it and much more. And then there is smart watches category which is derived from both Mobile Phones and Digital Watch. This smart watch can do everything Mobile Phone and Digital Watch does. You can see messages on it, call on it, set alarm on it, take picture.

**Tech  
Gadgets**

**Digital Watches**

**Smart Watches**

**Mobile Phones**