

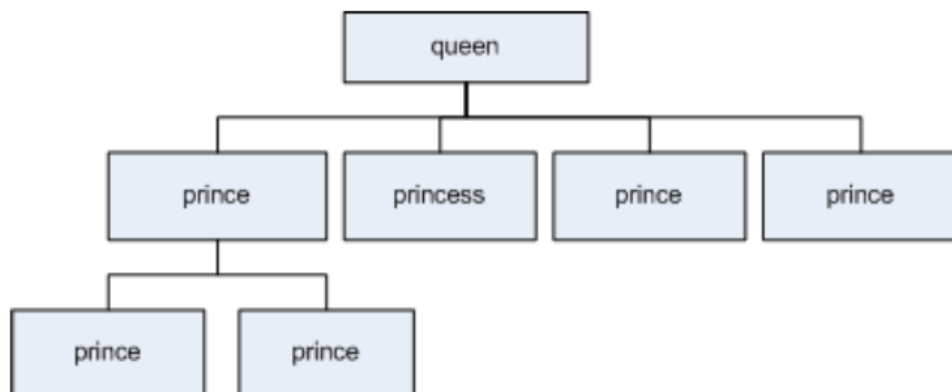
Workshop Answers - Week 3: COMP20008

1. HTML markup is concerned with presentation in the browser for humans to view. Markup vocabulary is fixed. For XML, markup (elements and attributes) can be defined by users and their purpose is to specify the semantics of the data so that it is machine processable. Use HTML for data that will be viewed in browser by humans, formatted nicely. XML for applications such as data exchange, integration, export into other formats, where semantics is needed, etc.
2. Type in (or copy and paste) the following XML data using a text editor.

```
<?xml version="1.0" encoding="utf-8"?>

<queen title="Queen Elizabeth II" marriedTo="Philip, Duke of Edinburgh">
  <prince title="Charles, Prince of Wales" marriedTo="Lady Diana Spencer">
    <prince title="Prince William of Wales" />
    <prince title="Prince Henry of Wales" />
    <!-- error below: capitilization -->
  </Prince>
  <princess title="Anne, Princess Royal" />
  <prince title="Andrew, Duke of York" />
  <!-- error below: missing / -->
  <prince title="Edward, Earl of Wessex" >
</queen>
```

3.
 - Tree below:



- 7. title, marriedTo "Charles, Prince of Wales", "Lady Diana Spencer"
The following two questions are asking students to understand difference between elements and attributes and when to use one over the other.
See e.g. <https://www.ibm.com/developerworks/library/x--eleatt/>
- Under this model, a person has only one title (structure is simple), can't have repeated titles with complex substructure.
- Can have a complex substructure, can have multiplicity/repeats (many princes)