Web Services & Semantic Web Tutorial Solutions

Question 1

Look at the WSDL document overleaf. Write an HTTP request containing a SOAP message to the service to ask what the weather will be like in the region "London" on the date "2009-12-25". Assume the SOAP message header is empty.

Sample solution

Question 2

Write an HTTP response message in reply to the above request, where the weather is reported as "snow" for a duration of "PT15H" (which is XML Schema's way of saying 15 hours). Again assume the SOAP message header is empty.

Sample solution

Question 3

An XHTML page contains only the following:

- A heading, "Colours I like"
- A bullet list with two items: "Aquamarine" and "Burgundy"

Write out the XHTML page including RDFa annotations to embed the following three statements into the page:

- The webpage has the title given in the heading, using predicate http://purl.org/dc/terms/title.
- The resource http://www.inf.kcl.ac.uk/staff/simonm is related to the first colour in the list by the predicate http://www.example.org/preferences/likes.
- The same resource is related in the same way as above to the second colour in the list.

Sample solution

```
<html>
<head><title>Colours I like</title></head>
<body>
<h1 property="http://purl.org/dc/terms/title">Colours I like</h1>

li property="http://www.example.org/preferences/likes">Aquamarine
property="http://www.example.org/preferences/likes">Burgundy

</body>
</html>
```