1) Express the following statements about Elise, the care home resident, in RDF triples. Use “http://dbpedia.org/resource/Australia” to denote Australia. Use QName shorthand to write RDF. (3pts)

Elise is 92 years old, she comes from Australia, and she inhabits suite No. 5.

Ex:Elise ex:age 92 .
Ex:Elise ex:origin http://dbpedia.org/resource/Australia
Ex:Elise ex:inhabits ex:suite-no-5.
2) Which triples are expressed by the following RDF/XML Document? 

Write down first the triples (4pts) in the form “Subject Predicate Object .” and secondly say shortly in your own words this RDF document describes given the small excerpt that you see (1pt).

```
<?xml version="1.0"?>
<rdf:RDF
xmlns:dct="http://purl.org/dc/terms/" xmlns:skos="http://www.w3.org/2004/02/skos/core#"
xmlns:prov="http://www.w3.org/ns/prov#" xmlns:foaf="http://xmlns.com/foaf/0.1/"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#
xmlns:gr="http://purl.org/goodrelations/v1#" xmlns:owlTime="http://www.w3.org/2006/time#"
xmns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmns:rdfs="http://www.w3.org/1999/02/22-rdf-syntax-ns#">

<owl:Ontology rdf:about="http://www.w3.org/ns/org#">
    <owl:versionInfo>0.7</owl:versionInfo>
    <dct:title>Core organization ontology</dct:title>
</owl:Ontology>

<owl:Class rdf:about="http://www.w3.org/ns/org#Organization">
    <rdfs:subClassOf rdf:resource="http://xmlns.com/foaf/0.1/Agent" />
</owl:Class>
</rdf:RDF>
```

http://www.w3.org/ns/org rdf:type owl:Ontology

http://www.w3.org/ns/org owl:versioninfo 0.7

http://www.w3.org/ns/org dc:title "Core organization ontology"

http://www.w3.org/ns/org#Organization rdf:type owl:Class

http://www.w3.org/ns/org#Organization rdf:type rdfs:Class

http://www.w3.org/ns/org#Organization rdf:subClassOf http://xmlns.com/foaf/0.1/Agent
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3) Assume you run the query on the given RDF data. What results do you expect? (2pts)

RDF Data:

```PREFIX ex: <http://example.org/> .

_:a dc:title "Very good introductory Textbook" .
_:b dc:title "Exceptionally even better intermediate Textbook" .
```

Query:

```PREFIX ex: <http://example.org/>
PREFIX dc: <http://purl.org/dc/elements/1.1/>

SELECT *
WHERE {
  ?book ex:website ?website
}
```

_:a “Very good introductory Textbook” http://kti.tugraz.at/examples/intro-tb-website

_:b “Exceptionally even better intermediate Textbook” http://kti.tugraz.at/examples/intermediate-tb-website
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4) Formulate as SPARQL Query, incl the “FROM” dataset selection (5pts):

What are the 5 most recently updated items in the following atom feed:
http://baltimore.indymedia.org/rss/newsfeed.1-0.rdf?

Print the item’s URI, its title and its creation date.

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX dc: <http://purl.org/dc/elements/1.1/>
PREFIX rss: <http://purl.org/rss/1.0/>
PREFIX atom: <http://www.w3.org/2005/Atom>
SELECT ?item ?title ?date
WHERE { ?item rdf:type rss:item .
}
ORDER BY DESC(?date)
LIMIT 5
```