CSIT884

Programming Exercise (Week 8)

(this is not an assignment)

Here is a sample of XSD code:

Question 1. Given the following XML code containing an exam result where score is an integer; and contestant id, exam id, band and digital signature are strings. Your task is to write the corresponding XSD code and save it into the file q1.xsd.

Question 2. Copy the code from q1.xsd to q2.xsd.

In q2.xsd, add the following restrictions:

- Band values must be A, B, C or D.
- Score values must be an integer between 0 and 300.

Here is a sample of restriction code:

```
<xsd:restriction base="xsd:integer">
    <xsd:minInclusive value="0" />
    <xsd:maxInclusive value="100" />
</xsd:restriction>

<xsd:restriction base="xsd:string">
    <xsd:enumeration value="LARGE" />
    <xsd:enumeration value="MEDIUM" />
    <xsd:enumeration value="SMALL" />
    </xsd:restriction>
```

Question 3. Given the following XML code.

Your task is to write the corresponding XSD code and save it into the file q3.xsd.

```
<?xml version="1.0"?>
<audit campus="Woolloomooloo" year="2000" session="A">
 <subject sid="0769642">
    <code>MATH101</code>
   <title>Calculus</title>
    <statistics>
      <enrol>170</enrol>
      <withdrawn>31</withdrawn>
    </statistics>
  </subject>
  <subject sid="1734231">
    <code>MATH234</code>
    <title>Abstract Algebra</title>
   <statistics>
      <enrol>40</enrol>
      <withdrawn>15</withdrawn>
    </statistics>
  </subject>
</audit>
```

END OF THE PROGRAMMING EXERCISE