

SGG 3643 (Computer Programming III)

Exercise #01: XML & XSLT (10%)

Please choose an appropriate compiler and begin writing in XML format from the data given below. Next, please reproduce the appropriate XSL source code using the previous lab exercise samples and output the XML file in a presentable HTML as shown in the figure 1.

<Staffs>	<EMPLOYEE>
<EMPLOYEE>	<ID>B533</ID>
<ID>A301</ID>	<NAME>PREM MOHAN</NAME>
<NAME>ALI MAJID</NAME>	<GENDER>MALE</ GENDER>
<GENDER>MALE</ GENDER>	<SALARY>RM 2215</SALARY>
<SALARY>RM 2110</SALARY>	</EMPLOYEE>
</EMPLOYEE>	<EMPLOYEE>
< EMPLOYEE>	<ID>B534</ID>
<ID>A302</ID>	<NAME>NORFAEZAH KASMURI</NAME>
<NAME>FAIZAH BAKRI</NAME>	<GENDER>FEMALE</ GENDER>
<GENDER>FEMALE</ GENDER>	<SALARY>RM 1990</SALARY>
<SALARY>RM 3060</SALARY>	</EMPLOYEE>
</EMPLOYEE>	<EMPLOYEE>
< EMPLOYEE>	<ID>B535</ID>
<ID>A303</ID>	<NAME>AIDA AYOB</NAME>
<NAME>GHADDAFI KAMAL</NAME>	<GENDER>FEMALE</ GENDER>
<GENDER>MALE</ GENDER>	<SALARY>RM 2150</SALARY>
<SALARY>RM 1725</SALARY>	</EMPLOYEE>
</EMPLOYEE>	<EMPLOYEE>
<EMPLOYEE>	<ID>B536</ID>
<ID>A304</ID>	<NAME>MUZZAN SHAZMIN</NAME>
<NAME>AHMAD ROMIZI</NAME>	<GENDER>FEMALE</ GENDER>
<GENDER>MALE</ GENDER>	<SALARY>RM 1860</SALARY>
<SALARY>RM 2174</SALARY>	</EMPLOYEE>
</EMPLOYEE>	<EMPLOYEE>
<EMPLOYEE>	<ID>B537</ID>
<ID>A305</ID>	<NAME>FIKRI ABDULLAH</NAME>
<NAME>RICHARD TEH</NAME>	<GENDER>MALE</ GENDER>
<GENDER>MALE</ GENDER>	<SALARY>RM 1810</SALARY>
<SALARY>RM 1930</SALARY>	</EMPLOYEE>
</EMPLOYEE>	</Staffs>

Employees of 2011 Maju Mundur Sdn. Bhd.		
Staff No: A301		
Staff Name: Ali Majid	Salary: RM 2110	Gender: Male
Staff No: A302		
Staff Name: ...	Salary: ...	Gender:
Staff No: A303		
Staff Name: ...	Salary: ...	Gender:
Staff No: A304		
Staff Name: ...	Salary: ...	Gender:
Staff No: A305		
Staff Name: ...	Salary: ...	Gender:
Staff No: B533		
Staff Name:	Salary:	Gender:
Staff No: B534		
Staff Name:	Salary:	Gender:
Staff No: B535		
Staff Name:	Salary:	Gender:
Staff No: B536		
Staff Name:	Salary:	Gender:
Staff No: B537		
Staff Name:	Salary:	Gender:

Figure 1: A presentable output from XML data.

RSS is a Web content syndication format. Its name is an acronym for Really Simple Syndication. In other words, RSS is a lightweight XML format designed for sharing headlines and other Web content.

Task: Please copy the RSS content below in HTML-Kit compiler and save it as **rss.xml**. Then, please **analyze** the RSS file. Submit your analysis in Word document.

```
<?xml version="1.0"?>
<rss version="2.0">
  <channel>
    <title>Liftoff News</title>
    <link>http://angkasa.gov.my/</link>
    <description>Liftoff to Space Exploration.</description>
    <language>en-us</language>
    <pubDate>Tue, 10 Jun 2010 04:00:00 GMT</pubDate>
    <lastBuildDate>Tue, 10 Jun 2010 09:41:01 GMT</lastBuildDate>
    <docs>http://www.angkasa.gov.my/tech/rss</docs>
    <generator>Weblog Editor 2.0</generator>
    <managingEditor>editor@example.com</managingEditor>
    <webMaster>webmaster@example.com</webMaster>
    <item>
      <title>Star City</title>
      <link>http://angkasa.gov.my/news/2010/news-starcity.asp</link>
      <description>How do Americans get ready to work with Russians
aboard the International Space Station? They take a crash course in culture,
language and protocol at Russia's &lt;a
href="http://howe.iki.rssi.ru/GCTC/gctc\_e.htm"&gt;Star
City&lt;/a>.</description>
      <pubDate>Tue, 03 Jun 2010 09:39:21 GMT</pubDate>
      <guid>http://angkasa.gov.my/2010/06/03.html#item573</guid>
    </item>
    <item>
      <description>Sky watchers in Europe, Asia, and parts of Alaska and
Canada will experience a &lt;a
href="http://science.nasa.gov/headlines/y2010/30may\_solareclipse.htm"&gt;pa
rtial eclipse of the Sun&lt;/a> on Saturday, May 31st.</description>
      <pubDate>Fri, 30 May 2010 11:06:42 GMT</pubDate>
      <guid>http://angkasa.gov.my/2010/05/30.html#item572</guid>
    </item>
    <item>
      <title>Astronauts' Dirty Laundry</title>
      <link>http://angkasa.gov.my/news/2010/news-laundry.asp</link>
      <description>Compared to earlier spacecraft, the International
Space Station has many luxuries, but laundry facilities are not one of them.
Instead, astronauts have other options.</description>
      <pubDate>Tue, 20 May 2010 08:56:02 GMT</pubDate>
      <guid>http://angkasa.gov.my/2010/05/20.html#item570</guid>
    </item>
  </channel>
</rss>
```