1. For the below XML file create a DTD and XSD file.

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

<emails>
<email>
 <to>Vimal</to>
 <from>Sonoo</from>
 <heading>Hello</heading>
 <body>Hello brother, how are you!</body>
</email>
<email>
 <to>Peter</to>
 <from>Jack</from>
 <heading>Birth day wish</heading>
 <body>Happy birth day Tom!</body>
</email>
</emails>
```

2. For the below XML file create a DTD and XSD file.
   - In the example below the book category should be cooking, children or web and if not then by default it should be general.
   - The book id should be unique.
   - The user can enter at the max 100 books.
   - The first letter of the author should be in capital.
   - The year of publication shouldn't be less than 1900.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<bookstore>
 <book category="COOKING"  id = "b1">
   <title lang="en">Everyday Italian</title>
   <author>Giada De Laurentiis</author>
   <year>2005</year>
   <price>30.00</price>
 </book>
 <book category="CHILDREN" id= "b2">
   <title lang="en">Harry Potter</title>
   <author>J K. Rowling</author>
   <year>2005</year>
   <price>29.99</price>
 </book>
 <book category="WEB " id = "b3">
```

```xml
    <title lang="en">Learning XML</title>
    <author>Erik T. Ray</author>
    <year>2003</year>
    <price>39.95</price>
  </book>
</bookstore>
```