**Instructions**

Please write a Java class to convert the XML input file to the JSON output file (below).  You are welcome to use any existing libraries. However, you should write generalized code supported by configuration or transformation files. This means that there should be no hardcoded references to either field names or field values in your Java code.

Please email us your Java project with sample files in one zip file. You do not have to include the external JAR files.

**XML input file:**

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <patients>    <patient>         <id>1234</id>         <gender>m</gender>         <name>John Smith</name>         <state>Michigan</state>         <dob>03/04/1962</dob>    </patient>    <patient>         <id>1235</id>         <gender>f</gender>         <name>Jane Smith</name>         <state>Ohio</state>         <dob>08/24/1971</dob>    </patient>  </patients> |

**JSON output file:**

|  |
| --- |
| [         {                "patientid": 1234,                "sex": "male",                "state": "MI",                "name": "John Smith",                "age": 55         },         {                "patientid": 1235,                "sex": "female",                "state": "OH",                "name": "Jane Smith",                "age": 45         }  ] |