## Exercise 03-03 - Using Diagnostics

## Instructions

We're going to validate the input document input.xml:

```
<things-and-artifacts>
<thing name="thing 1" type="normal"/>
<thing name="thing 2" type="special"/>
<thing name="thing 3" type="special"/>
<thing name="thing 4" type="vintage"/>
<artifact name="artifact 1" type="martian"/>
<artifact name="artifact 2" type="zorkian"/>
<artifact name="artifact 3" type="venusian"/>
<artifact name="artifact 3" type="venusian"/>
</things-and-artifacts>
```

The rules for this are:

- Things must have a type normal or special
- Artifacts must have a type martian or zorkian

A basic schenma that checks this is in schema.sch:

Please break out the reused message in a diagnostic.

As an extra, add the following diagnostics:

- For things: Things must be normal or special
- For artifacts: Artifacts muet be martian or zorkian

Make the rules that check the things and artifacts now issue two messages: The generic one that was already defined *and* the appropriate specific one you just added.

Use the template document schema.sch as a starting point. In oXygen, the input document input.xml automatically uses schema.sch for validation.