DTD Validation

XML Code:

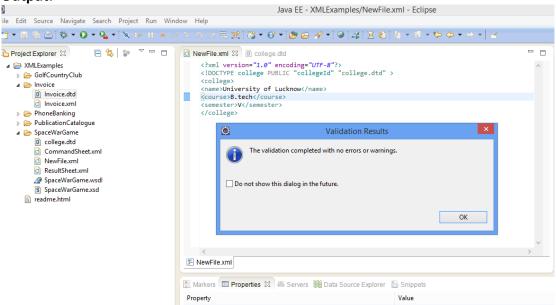
```
<?xml version="1.0" encoding="UFT-8"?>
<!DOCTYPE college PUBLIC "collegeId" "college.dtd">
<college>
<name>University of Lucknow</name>
<course>B.tech</course>
<semester>V</semester>
</college>
```

DTD file

Code:

- <!ELEMENT college (name,course,semester)>
- <!ELEMENT name (#PCDATA)>
- <!ELEMENT course (#PCDATA)>
- <!ELEMENT semester (#PCDATA)>

Output:



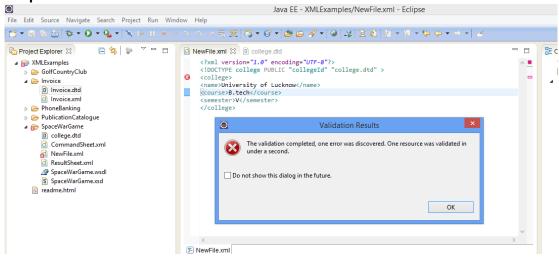
XML code:

- <?xml version="1.0" encoding="UFT-8"?>
- <!DOCTYPE college PUBLIC "collegeId" "college.dtd">
- <college>
- <name>University of Lucknow</name>
- <course>B.tech</course>
- <semester>V</semester>
- </college>

DTD file code:

- <!ELEMENT college (name, semester)>
- <!ELEMENT name (#PCDATA)>
- <!ELEMENT course (#PCDATA)>
- <!ELEMENT semester (#PCDATA)>

Output:



Validation for Multiple child elements XML code:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE college PUBLIC "collegeId" "college.dtd" >
<college>
```

```
<name a="3">University of Lucknow</name>
```

<course>B.tech</course>

<course>B.tech</course>

<semester>V</semester>

<semester>V</semester>

</college>

DTD file code

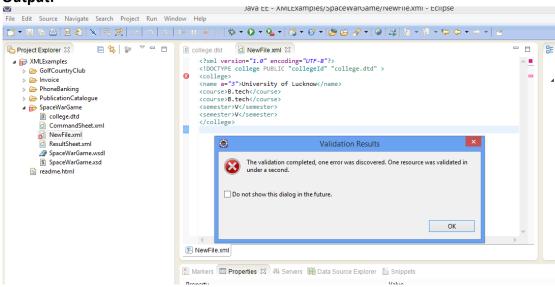
<!ELEMENT college (name,course,semester+)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT course (#PCDATA)>

<!ELEMENT semester (#PCDATA)>

Output:



XML code:

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

<!DOCTYPE college PUBLIC "collegeId" "college.dtd" >

<college>

<name a="7">University of Lucknow</name>

<course>B.tech</course>

<semester>V</semester>

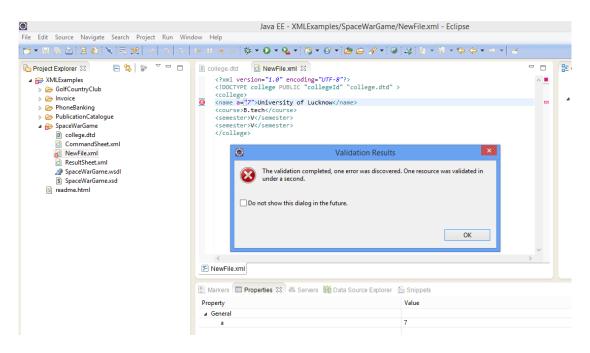
<semester>V</semester>

</college>

DTD file code:

- <!ELEMENT college (name,course,semester+)>
- <!ELEMENT name (#PCDATA)>
- <!ELEMENT course (#PCDATA)>
- <!ELEMENT semester (#PCDATA)>
- <!ATTLIST name a (3 | 4| 5) "3">

Output:



Attribute required validation

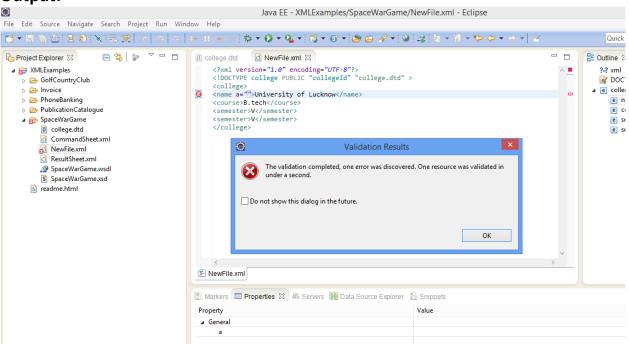
XML code:

- <?xml version="1.0" encoding="UTF-8"?>
- <!DOCTYPE college PUBLIC "collegeId" "college.dtd" >
- <college>
- <name a="">University of Lucknow</name>
- <course>B.tech</course>
- <semester>V</semester>
- <semester>V</semester>
- </college>

DTD file code

- <!ELEMENT college (name,course,semester+)>
- <!ELEMENT name (#PCDATA)>
- <!ELEMENT course (#PCDATA)>
- <!ELEMENT semester (#PCDATA)>
- <!ATTLIST name a (3 | 4| 5) #REQUIRED>

Output:



Order of child element validation

XML code:

- <?xml version="1.0" encoding="UTF-8"?>
- <!DOCTYPE college PUBLIC "collegeId" "college.dtd" >
- <college>
- <semester>V</semester>
- <name a="3">University of Lucknow</name>
- <course>B.tech</course>
- </college>

DTD file code:

- <!ELEMENT college ((name,course,semester)|(course,semester,name))>
- <!ELEMENT name (#PCDATA)>
- <!ELEMENT course (#PCDATA)>
- <!ELEMENT semester (#PCDATA)>
- <!ATTLIST name a (3 | 4| 5) #REQUIRED>

Output:

