

book.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<Book ISBN="123456789">
  <Title>Sample Book</Title>
  <Author>John Doe</Author>
  <PublicationYear>2022</PublicationYear>
</Book>
```

book_schema.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <!-- Define the complex type for the Book element -->
  <xs:element name="Book" type="BookType"/>
  <!-- Define the complex type for the Book element's structure -->
  <xs:complexType name="BookType">
    <xs:sequence>
      <xs:element name="Title" type="xs:string"/>
      <xs:element name="Author" type="xs:string"/>
      <xs:element name="PublicationYear" type="xs:gYear"/>
    </xs:sequence>
    <xs:attribute name="ISBN" type="xs:string" use="required"/>
  </xs:complexType>
</xs:schema>
```

program.py

```
from lxml import etree
# Load the XML Schema

schema_file = 'C:/Users/Disha Parale/Desktop/sem6/SDL/assign_xml/book_schema.xsd'

schema = etree.XMLSchema(etree.parse(schema_file))

# Load the XML document

xml_file = 'C:/Users/Disha Parale/Desktop/sem6/SDL/assign_xml/book.xml'

xml_doc = etree.parse(xml_file)

# Validate the XML document against the schema

if schema.validate(xml_doc):

    print("Validation successful.")

else:

    print("Validation failed. Errors:")
```

```
# for error in schema.error_log:

#     print(error)
```

Output:

17

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

```
PS C:\Users\Disha Parale\Desktop\sem6\SDL\assign_xml> & "C:/Users/Disha Parale/AppData/
/SDL/assign_xml/program_name.py"
Validation successful.
PS C:\Users\Disha Parale\Desktop\sem6\SDL\assign_xml>
```