

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT CODE: 19CS2107

ENTERPRISE PROGRAMMING WORKBOOK

XML #1

Date of the Session: __/__/__
_____to_____

Time of the Session:

Prerequisite:

- ☐ Basic understanding of HTML tags.
- ☐ Differences between HTML and XML and its uses.
- ☐ Idea on tags of XML.

Pre-Lab Task:

- 7) As you're in the very beginning stage of learning how to create a XML document. Write an XML to accept student details [Name, ID, Branch and CGPA] for minimum 5 students.

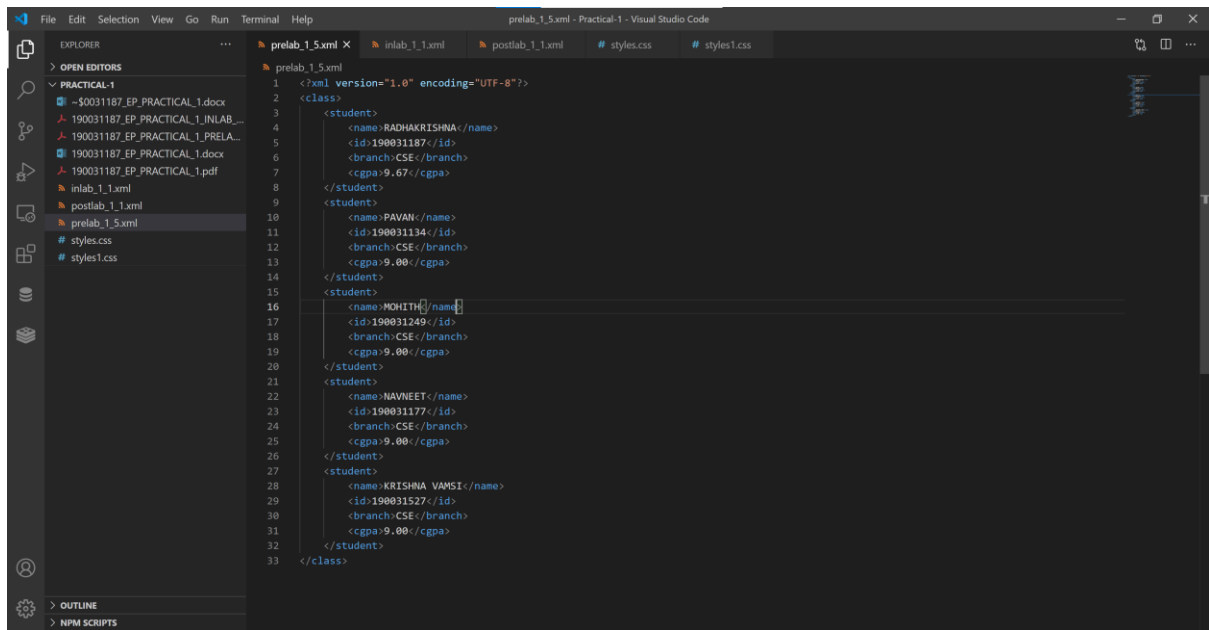
```
<class>
  <student>
    <name> ABC </name>
    <id> 001 </id>
    <branch> IT </branch>
    <cgpa> 9 </cgpa>
  </student>
  <student>
```

Prelab.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<class>
  <student>
    <name>RADHAKRISHNA</name>
    <id>190031187</id>
    <branch>CSE</branch>
    <cgpa>9.67</cgpa>
  </student>
  <student>
    <name>PAVAN</name>
    <id>190031134</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
```

```
</student>
<student>
  <name>MOHITH</name>
  <id>190031249</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
<student>
  <name>NAVNEET</name>
  <id>190031177</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
<student>
  <name>KRISHNA VAMSI</name>
  <id>190031527</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
</class>
```

CODE



```
prelab_1_5.xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <class>
3
4      <student>
5          <name>RADHAKRISHNA</name>
6          <id>190031187</id>
7          <branch>CSE</branch>
8          <cgpa>9.67</cgpa>
9      </student>
10     <student>
11         <name>PAVAN</name>
12         <id>190031134</id>
13         <branch>CSE</branch>
14         <cgpa>9.00</cgpa>
15     </student>
16     <student>
17         <name>MOHITH</name>
18         <id>190031249</id>
19         <branch>CSE</branch>
20         <cgpa>9.00</cgpa>
21     </student>
22     <student>
23         <name>NAVNEET</name>
24         <id>190031177</id>
25         <branch>CSE</branch>
26         <cgpa>9.00</cgpa>
27     </student>
28     <student>
29         <name>KRISHNA VAMSI</name>
30         <id>190031527</id>
31         <branch>CSE</branch>
32         <cgpa>9.00</cgpa>
33     </student>
34 </class>
```

OUTPUT

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0"?>
<class>
  <student>
    <name>RADHAKRISHNA</name>
    <id>190031187</id>
    <branch>CSE</branch>
    <cgpa>9.67</cgpa>
  </student>
  <student>
    <name>PAVAN</name>
    <id>190031134</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
  </student>
  <student>
    <name>MOHITH</name>
    <id>190031249</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
  </student>
  <student>
    <name>NAVNEET</name>
    <id>190031177</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
  </student>
  <student>
    <name>KRISHNA VAMSI</name>
    <id>190031527</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
  </student>
</class>
```

In Lab Task:

- 1) Write a program for Books store, and the XML file is created that contains the information about five books and displaying the XML file using CSS.

```
<books>

    <heading>Welcome To Enterprise Programming </heading>

    <book>

        <title>Title -: Web Programming</title>

        <author>Author -: Chrisbates</author>

        <publisher>Publisher -: Wiley</publisher>

        <edition>Edition -: 3</edition>

        <price> Price -: 300</price>

    </book>

    ...

    ...

</books>
```

Inlab.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="styles.css"?>
<books>
    <heading>Welcome To Enterprise Programming</heading>
    <book>
        <title>Title -: Web Programming</title>
        <author>Author -: Chrisbates</author>
        <publisher>Publisher -: Wiley</publisher>
        <edition>Edition -: 3</edition>
        <price> Price -: 300</price>
    </book>
    <book>
        <title>Title -: Discrete Maths</title>
        <author>Author -: Chrisbates</author>
        <publisher>Publisher -: Wiley</publisher>
        <edition>Edition -: 3</edition>
        <price> Price -: 300</price>
    </book>
    <book>
        <title>Title -: Programming with C</title>
        <author>Author -: Dennis Ritchie</author>
        <publisher>Publisher -: BalaGuru</publisher>
        <edition>Edition -: 10</edition>
```

```

    <price>Price -: 1500</price>
  </book>
  <book>
    <title>Title -: Chemistry in Daily life</title>
    <author>Author -: Rutherford</author>
    <publisher>Publisher -: Atom</publisher>
    <edition>Edition -: 8</edition>
    <price>Price -: 700</price>
  </book>
  <book>
    <title>Title -: Harry Potter</title>
    <author>Author -: J.K. Rowling</author>
    <publisher>Publisher -: Ray</publisher>
    <edition>Edition -: 1</edition>
    <price>Price -: 1500</price>
  </book>
</books>

```

CODE

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <?xml-stylesheet type="text/css" href="styles.css"?>
3  <books>
4    <heading>Welcome To Enterprise Programming</heading>
5    <book>
6      <title>Title -: Web Programming</title>
7      <author>Author -: Chrisbates</author>
8      <publisher>Publisher -: Wiley</publisher>
9      <edition>Edition -: 3</edition>
10     <price>Price -: 300</price>
11   </book>
12   <book>
13     <title>Title -: Discrete Maths</title>
14     <author>Author -: Chrisbates</author>
15     <publisher>Publisher -: Wiley</publisher>
16     <edition>Edition -: 3</edition>
17     <price>Price -: 300</price>
18   </book>
19   <book>
20     <title>Title -: Programming with C</title>
21     <author>Author -: Dennis Ritchie</author>
22     <publisher>Publisher -: BalaGuru</publisher>
23     <edition>Edition -: 10</edition>
24     <price>Price -: 1500</price>
25   </book>
26   <book>
27     <title>Title -: Chemistry in Daily life</title>
28     <author>Author -: Rutherford</author>
29     <publisher>Publisher -: Atom</publisher>
30     <edition>Edition -: 8</edition>
31     <price>Price -: 700</price>
32   </book>
33   <book>
34     <title>Title -: Harry Potter</title>
35     <author>Author -: J.K. Rowling</author>
36     <publisher>Publisher -: Ray</publisher>
37     <edition>Edition -: 1</edition>

```

styles.css

```

heading{
  background-color:greenyellow;
  font-weight:bold;
  font-size:40px;
  display: block;
  text-align: center;
}

books{

```

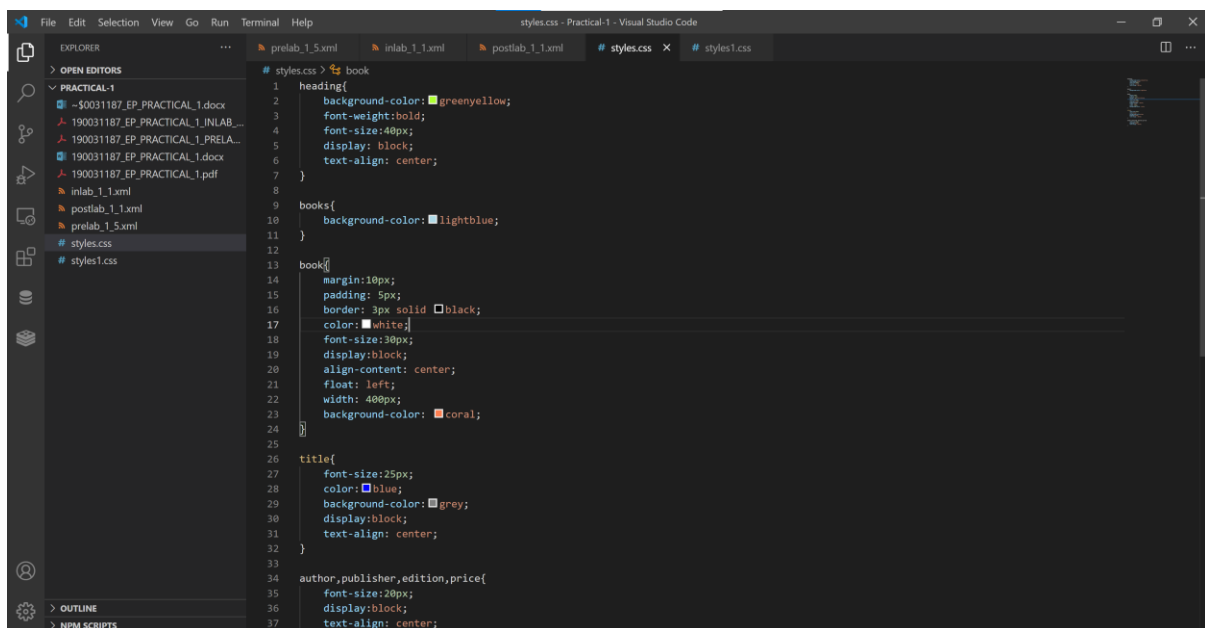
```
        background-color:lightblue;
    }

    book{
        margin:10px;
        padding: 5px;
        border: 3px solid black;
        color:white;
        font-size:30px;
        display:block;
        align-content: center;
        float: left;
        width: 400px;
        background-color: coral;
    }

    title{
        font-size:25px;
        color:blue;
        background-color:grey;
        display:block;
        text-align: center;
    }

    author,publisher,edition,price{
        font-size:20px;
        display:block;
        text-align: center;
    }
```

Css CODE



OUTPUT**Welcome To Enterprise Programming****Title -: Web Programming**

Author -: Chrisbates
Publisher -: Wiley
Edition -: 3
Price -: 300

Title -: Discrete Maths

Author -: Chrisbates
Publisher -: Wiley
Edition -: 3
Price -: 300

Title -: Programming with C

Author -: Dennis Ritchie
Publisher -: BalaGuru
Edition -: 10
Price -: 1500

Title -: Chemistry in Daily life

Author -: Rutherford
Publisher -: Atom
Edition -: 8
Price -: 700

Title -: Harry Potter

Author -: J.K. Rowling
Publisher -: Ray
Edition -: 1
Price -: 1500

Post Lab Task:

Write a program for Books store, and the XML file is created that contains the information about five books of different categories and displaying the XML file using CSS.

- ✓ Action and **Adventure**.
- ✓ Classics.
- ✓ Comic Book or **Graphic Novel**.
- ✓ Detective and Mystery.
- ✓ Fantasy.
- ✓ Historical Fiction.
- ✓ Horror.
- ✓ Literary Fiction.

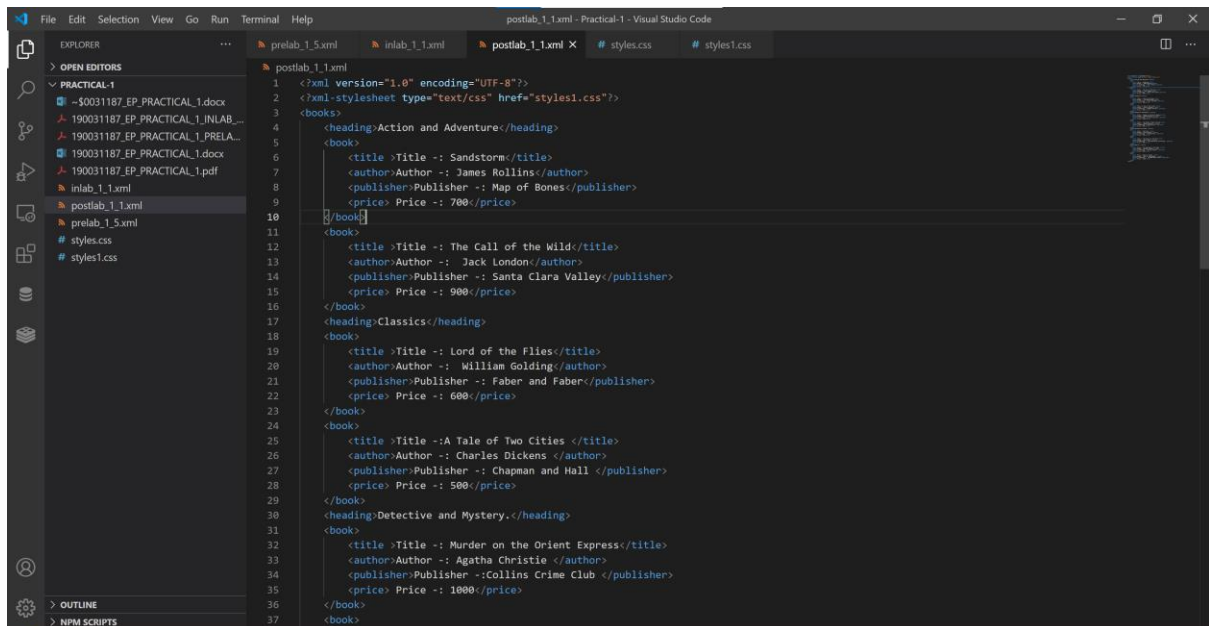
Postlab.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="styles1.css"?>
<books>
  <heading>Action and Adventure</heading>
  <book>
    <title>Title -: Sandstorm</title>
    <author>Author -: James Rollins</author>
    <publisher>Publisher -: Map of Bones</publisher>
    <price> Price -: 700</price>
  </book>
  <book>
    <title>Title -: The Call of the Wild</title>
    <author>Author -: Jack London</author>
    <publisher>Publisher -: Santa Clara Valley</publisher>
    <price> Price -: 900</price>
  </book>
  <heading>Classics</heading>
  <book>
    <title>Title -: Lord of the Flies</title>
    <author>Author -: William Golding</author>
    <publisher>Publisher -: Faber and Faber</publisher>
    <price> Price -: 600</price>
  </book>
  <book>
    <title>Title -:A Tale of Two Cities </title>
    <author>Author -: Charles Dickens </author>
    <publisher>Publisher -: Chapman and Hall </publisher>
    <price> Price -: 500</price>
  </book>
  <heading>Detective and Mystery.</heading>
  <book>
    <title>Title -: Murder on the Orient Express</title>
    <author>Author -: Agatha Christie </author>
```



```
<publisher>Publisher -: Collins Crime Club </publisher>
<price> Price -: 1000</price>
</book>
<book>
  <title >Title -: The Murder of Roger Ackroyd</title>
  <author>Author -: Agatha Christie </author>
  <publisher>Publisher -: HarperCollins </publisher>
  <price> Price -: 900</price>
</book>
<heading>Historical Fiction.</heading>
<book>
  <title >Title -: Wolf Hall </title>
  <author>Author -: Hilary Mantel </author>
  <publisher>Publisher -: HarperCollins </publisher>
  <price> Price -: 700</price>
</book>
<book>
  <title >Title -: The Pillars of the Earth</title>
  <author>Author -: Ken Follett </author>
  <publisher>Publisher -: The Evening and the Morning </publisher>
  <price> Price -: 900</price>
</book>
<heading>Horror.</heading>
<book>
  <title >Title -: The Haunting of Hill House </title>
  <author>Author -: Shirley Jackson </author>
  <publisher>Publisher -: Shirley Jackson </publisher>
  <price> Price -: 800</price>
</book>
<book>
  <title >Title -: House of Leaves </title>
  <author>Author -: Mark Z. Danielewski </author>
  <publisher>Publisher -: The Whalestoe Letters </publisher>
  <price> Price -: 1100</price>
</book>
</books>
```

CODE



styles1.css

```

heading{
    background-color:greenyellow;
    font-weight:bold;
    font-size:40px;
    display: block;
    text-align: center;
}

books{
    background-color:lightblue;
}

book{
    margin:10px;
    padding: 5px;
    border: 3px solid black;
    color:white;
    font-size:30px;
    display:block;
    align-content: center;
    background-color: coral;
}

title{
    font-size:25px;
    color:blue;
    background-color:grey;
    display:block;
    text-align: center;
}

author,publisher,edition,price{
    font-size:20px;

```

```
display: block;
text-align: center;
}
```

Css CODE

```
# styles1.css
1 heading{
2   background-color: #greenyellow;
3   font-weight: bold;
4   font-size: 40px;
5   display: block;
6   text-align: center;
7 }
8
9 books{
10  background-color: #lightblue;
11 }
12
13 book{
14  margin: 10px;
15  padding: 5px;
16  border: 3px solid black;
17  color: #white;
18  font-size: 30px;
19  display: block;
20  align-content: center;
21  background-color: #coral;
22 }
23
24 title{
25  font-size: 25px;
26  color: #blue;
27  background-color: #grey;
28  display: block;
29  text-align: center;
30 }
31
32 author, publisher, edition, price{
33  font-size: 20px;
34  display: block;
35  text-align: center;
36 }
```

OUTPUT

Action and Adventure
Title -: Sandstorm Author -: James Rollins Publisher -: Map of Bones Price -: 700
Title -: The Call of the Wild Author -: Jack London Publisher -: Santa Clara Valley Price -: 900
Classics
Title -: Lord of the Flies Author -: William Golding Publisher -: Faber and Faber Price -: 600
Title -: A Tale of Two Cities Author -: Charles Dickens Publisher -: Chapman and Hall Price -: 500
Detective and Mystery.
Title -: Murder on the Orient Express Author -: Agatha Christie Publisher -: Collins Crime Club Price -: 1000
Title -: The Murder of Roger Ackroyd Author -: Agatha Christie Publisher -: HarperCollins Price -: 900
Historical Fiction.
Title -: Wolf Hall Author -: Hilary Mantel Publisher -: HarperCollins Price -: 700
Title -: The Pillars of the Earth Author -: Ken Follett Publisher -: The Evening and the Morning Price -: 900
Horror.
Title -: The Haunting of Hill House Author -: Shirley Jackson Publisher -: Shirley Jackson Price -: 800
Title -: House of Leaves Author -: Mark Z. Danielewski Publisher -: The Whales Letters Price -: 1100