

1. Explain how xml data can be displayed using css.

Ans:

XML stands for **Extensible Markup Language**. It is a dynamic markup language. It is used to transform data from one form to another form. An XML file can be displayed using two ways. These are as follows :-

1. Cascading Style Sheet
2. Extensible Stylesheet Language Transformation

Displaying XML file using CSS :

CSS can be used to display the contents of the XML document in a clear and precise manner. It gives the design and style to whole XML document.

- **Basic steps in defining a CSS style sheet for XML :**

For defining the style rules for the XML document, the following things should be done :-

1. Define the style rules for the text elements such as font-size, color, font-weight, etc.
2. Define each element either as a block, inline or list element, using the display property of CSS.
3. Identify the titles and bold them.

- **Linking XML with CSS :**

In order to display the XML file using CSS, link XML file with CSS. Below is the syntax for linking the XML file with CSS:

```
<?xml-stylesheet type="text/css" href="name_of_css_file.css"?>
```

Example : xml file -

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

```
<?xml-stylesheet type="text/css" href="new.css"?>
```

```
<books>
```

```
    <heading>Welcome To dhemaji College </heading>
```

```
    <book>
```

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

<author>Author -: Anil</author>

<publisher>Publisher -: ABC</publisher>

<edition>Edition -: 3</edition>

<price> Price -: 300</price>

</book>

<book>

<title>Title -: Internet world-wide-web</title>

<author>Author -: Ram</author>

<publisher>Publisher -: QWE</publisher>

<edition>Edition -: 3</edition>

<price>Price -: 400</price>

</book>

<book>

<title>Title -: Computer Networks</title>

<author>Author -: Akash</author>

<publisher>Publisher -: MCA</publisher>

<edition>Edition -: 5</edition>

<price>Price -: 700</price>

</book>

<book>

<title>Title -: DBMS Concepts</title>

```
<author>Author -: QQQ</author>
<publisher>Publisher -: OWWW</publisher>
<edition>Edition -: 5</edition>
<price>Price -: 600</price>
</book>
<book>
  <title>Title -: Linux Programming</title>
  <author>Author -: Subhitab</author>
  <publisher>Publisher -: OWW</publisher>
  <edition>Edition -: 8</edition>
  <price>Price -: 300</price>
</book>
</books>
```

CSS file: new.css

```
books {
  color: white;
  background-color : gray;
  width: 100%;
}
```

```
heading {
    color: green;
    font-size : 40px;
    background-color : powderblue;
    text-align:center;
    text-decoration: underline
}
heading, title, author, publisher, edition, price {
    display : block;
}
title {
    border: 1px solid silver;
    font-size : 25px;
    font-weight : bold;
    margin:0.5em;
padding:0.5em;
}
```

Advantages of displaying XML using CSS:

1. CSS is used in XML or HTML to decorate the pages.
2. CSS is used for interactive interface, so it is understandable by user.
3. CSS enable multiple pages to share formatting, and reduce complexity and repetition in the structural content. So page loader is faster.

Disadvantages of displaying XML using CSS :

1. Using CSS, no transformation can be applied to the XML documents.
2. CSS uses different dimensions with different browsers. So the programmer has to run the code in different browser and test its compatibility to post it live.
3. CSS have different level of versions, so it is confusing for the browser and user.