Experiment No.3

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Title:

Write a program to design book catalog by using XML and CSS to display title, author, price and year of the book.

Theory:

CSS: CSS stands for Cascading Style Sheet. It is nothing, but design language intended to simplify the process of making web pages presentable. CSS handles the feel and look of a web page. By using CSS, one can control the color of text, style of fonts, spacing between paragraphs, layout designs.

CSS is easy to learn, easy to understand and it provides powerful control on presentation of an HTML document.

CSS can be added to HTML elements in3 ways:

- Inline: By using a style attribute in HTML elements. An inline CSS is used to apply a unique style to a single HTML element.

- Internal: By using a <style> element in the <head> section. An internal CSS is used to define a style for a single HTML page. An internal CSS is defined in the <head> section of an HTML page, within a <style> element.

External: By using an external CSS file. An external style sheet is used to define the style for many HTML pages. With an external CSS style sheet, you can change the

look of an entire website, by changing one file. To use an external style sheet, add a link in the <head> section of the HTML page.

XML:

XML stands for Extensible Markup Language. It is nothing but the text based markup language which is derived from Standard Generalized Markup Language (SGML).

XML tags identify the data and are used to store and organize the data, rather than specifying how to display it like HTML tags, which are used to display the data. XML is not going to replace HTML in the near future, but it introduces new possibilities by adopting many successful features of HTML.

There are 3 important characteristics of XML that make it useful in a variety of systems and solutions-

1. XML is extensible: XML allows you to create your own self-descriptive tags or language that suits your application.

2. XML carries the data, does not present it: XML allows you to store data irrespective of how it will be presented.

3. XML is public standard: XML was developed by an organization called the World Wide Web Consortium (W3C) and is available as an open standard

Program:

hello.xml code:

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

```xml
<CATALOG>

<BOOK>

<TITLE>Database Management System</TITLE>

<AUTHOR>Korth</AUTHOR>

<PRICE>500</PRICE>

<YEAR>1985</YEAR>

</BOOK>

<BOOK>

<TITLE>Computer Network</TITLE>

<AUTHOR>Tenenbaum</AUTHOR>

<PRICE>600</PRICE>
<YEAR>1985</YEAR>

</BOOK>

<BOOK>

<TITLE>Software Engineering and Project Management</TITLE>

<AUTHOR>Roger Pressman</AUTHOR>

<PRICE>600</PRICE>

<YEAR>1985</YEAR>

</BOOK>

</CATALOG>
```

book_catalog.css code: BOOK{

Display:BLOCK;   marginleft:

30pt;   margin-bottom:

30pt;

}

CATALOG{   width: 100%;

backgroundcolor: gray;

}

TITLE{

  Color: #ff0000;   display:

    block;   fontsize:

20pt;

}

AUTHOR{

  Display:BLOCK;   color:
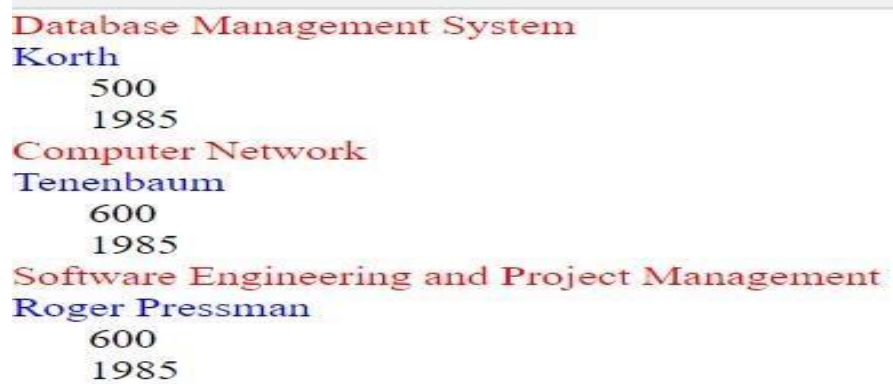
#0000ff;   fontsize: 20pt;

}

YEAR,PRICE{

Color:black;   display: block;

margin-left:

20pt;

}

<u>Output:</u>

Database Management System
Korth
     500
     1985
Computer Network
Tenenbaum
     600
     1985
Software Engineering and Project Management
Roger Pressman
     600
     1985

<u>Conclusion:</u>

We studied how to design a book catalog by using XML and CSS to display title, author, price and year of the book.