Experiment 1

Aim: Build a web page for your college with the course details, department, faculties, and the library.Use HTML href and list tags.

Code:

```html
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <title>College Info</title>
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="stylesheet" type="text/css" media="screen" href="#" />
  <script src="main.js"></script>
</head>

<body style="background-color: lightgray">
  <div style="
        display: flex;
        justify-content: space-between;
        padding-right: 2px;
        background-color: black;
      ">
    <h1 style="color: aliceblue;">Pandit Deendayal Energy University</h1>
    <div style="display: flex; justify-content: flex-end">
      <li style="
            list-style: none;
            padding-left: 3px;
            padding-top: 30px;
            font-size: large;
          ">
        <a href="#" style="text-decoration: none; color: aliceblue;">Course</a>
      </li>
      <li style="
            list-style: none;
            padding-left: 30px;
            padding-top: 30px;
            font-size: large;
          ">
        <a href="#" style="text-decoration: none; color: aliceblue;">Department</a>
      </li>
      <li style="
            list-style: none;
            padding-left: 30px;
            padding-top: 30px;
```

```html
                font-size: large;
            ">
          <a href="#" style="text-decoration: none; color: aliceblue;">Faculties</a>
        </li>
        <li style="
            list-style: none;
            padding-left: 30px;
            padding-top: 30px;
            font-size: large;
            padding-right: 30px;
            ">
          <a href="#" style="text-decoration: none; color: aliceblue;">Library</a>
        </li>
      </div>
    </div>

    <h1>Courses</h1>
    <ul>
      <li>
        <a href="#">Database Management System</a>
      </li>
      <li>
        <a href="#">Operating System</a>
      </li>
    </ul>

    <h1>Department</h1>
    <ul>
      <li>
        <a href="#">ICT</a>
      </li>
      <li>
        <a href="#">CSE</a>
      </li>
    </ul>

    <h1>Faculties</h1>
    <ul>
      <li>
        <a href="#">Santosh Satapathy</a>
      </li>
      <li>
        <a href="#">Shivangi Mehta</a>
      </li>
      <li>
        <a href="#">Kamal Garg</a>
      </li>
      <li>
```

```html
        <a href="#">Devalina Adhikari</a>
      </li>
    </ul>

    <h1>Library</h1>
    <p>
      The college library serves as a hub of knowledge and a sanctuary for
      intellectual exploration. Housing an extensive collection of books,
      journals, and multimedia resources, the library provides students and
      faculty with a rich repository of information across various disciplines.
      It serves as a quiet and conducive environment for research, study, and
      contemplation, fostering a culture of continuous learning. Librarians play
      a crucial role in guiding individuals through the vast array of resources,
      helping them navigate and extract valuable information.
    </p>

    <p>
      <a href="#">© 2024 PDEU, All rights reversed</a>
    </p>
  </body>
</html>
```

Output:

Pandit Deendayal Energy University   Course   Department   Faculties   Library

Courses

- Database Management System
- Operating System

Department

- ICT
- CSE

Faculties

- Santosh Satapathy
- Shivangi Mehta
- Kamal Garg
- Devalina Adhikari

Library

The college library serves as a hub of knowledge and a sanctuary for intellectual exploration. Housing an extensive collection of books, journals, and multimedia resources, the library provides students and faculty with a rich repository of information across various disciplines. It serves as a quiet and conducive environment for research, study, and contemplation, fostering a culture of continuous learning. Librarians play a crucial role in guiding individuals through the vast array of resources, helping them navigate and extract valuable information.

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Questions and Answers:

Q: What is the purpose of the HTML <meta> tag?

A: The <meta> tag is used to provide metadata about the HTML document, such as character set, viewport settings, and keywords.

Q: Explain the difference between HTTP and HTTPS.

A: HTTP (Hypertext Transfer Protocol) is unsecured, while HTTPS (Hypertext Transfer Protocol Secure) encrypts the data exchanged between the user's browser and the website, ensuring a secure connection.

Q: What is the Box Model in CSS?

A: The Box Model is a fundamental concept in CSS, defining the layout of elements. It consists of content, padding, border, and margin around each element.

Q: What is the purpose of the CSS float property?

A: The float property is used to align elements to the left or right within their container, allowing text and inline elements to wrap around it.

Q: How does responsive web design differ from adaptive web design?

A: Responsive web design uses flexible grids and layouts to adapt to different screen sizes, while adaptive web design uses predefined layout sizes for specific devices or screen resolutions.