

Web Technologies Lab

Paper Code: CIE-306P

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Web Technologies

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Program 1

Aim :- To install and set up the XAMPP server on a Windows/Linux system for local web development.

Introduction

XAMPP is an open-source, cross-platform web server solution that includes Apache, MariaDB (MySQL), PHP, and Perl. It provides a simple and lightweight way to set up a local server environment for testing and development. Developers commonly use XAMPP to create and test web applications before deploying them to live servers.

Steps to Install XAMPP:

Step 1: Download XAMPP

1. Visit the official XAMPP website: <https://www.apachefriends.org>.
2. Click on the download button and choose the version compatible with your operating system (Windows/Linux/macOS).

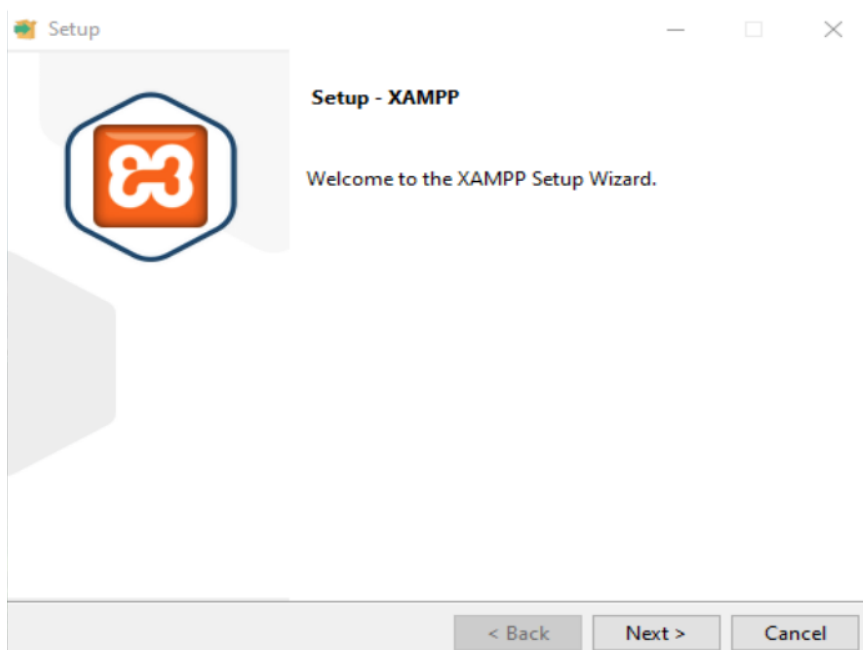
Step 2: Install XAMPP

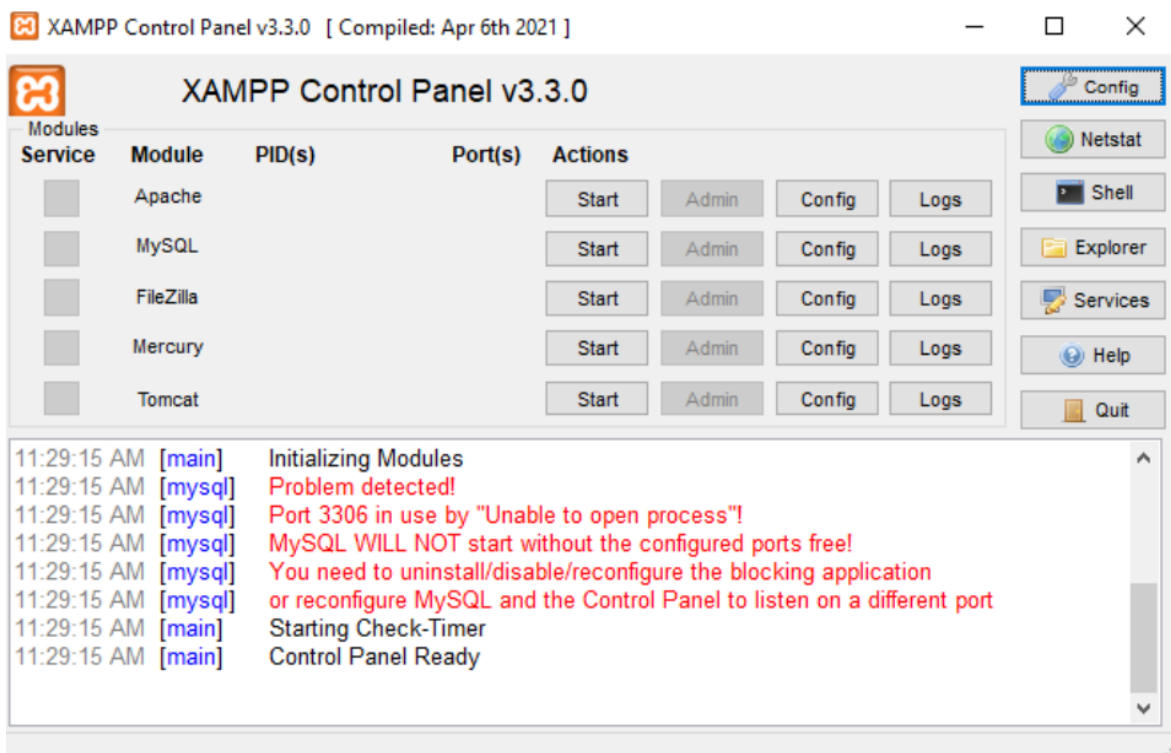
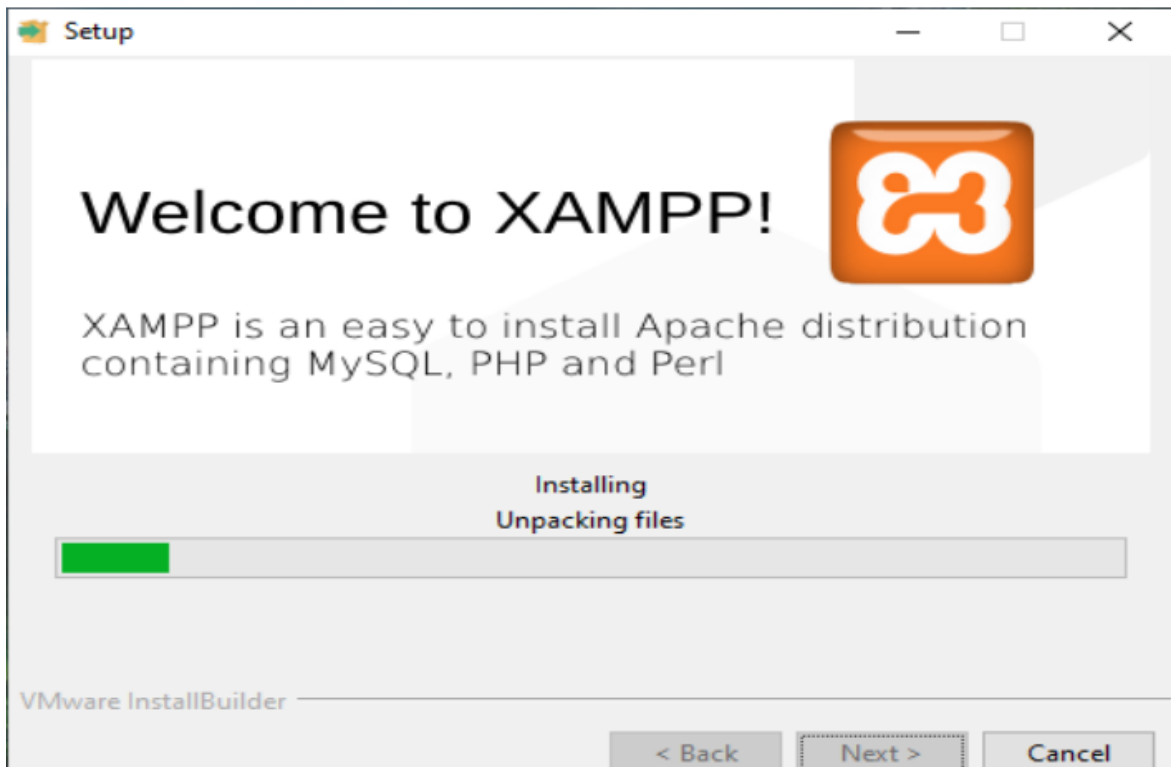
1. Open the downloaded .exe (Windows) or .run (Linux) file.
2. Follow the installation wizard:
 - a. Click "Next" to proceed.
 - b. Select the components you want to install (by default, all are selected).
 - c. Choose the installation directory (default is C:\xampp\ for Windows).
 - d. Click "Next" and then "Install."

Step 3: Start XAMPP Control Panel

1. Open the XAMPP Control Panel from the Start menu or installation folder.
2. Click "Start" next to Apache and MySQL to run the server.
3. Open a browser and type <http://localhost/> to check if XAMPP is working properly.

ScreenShots





Program 2

Aim :- Design web pages for your college containing a description of the courses, departments, faculties, library, etc, use href, list tags.

Source Code

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>MAIT - College Website</title>
    <style>
      body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
        background-color: #f4f4f4;
      }
      header {
        background-color: #004080;
        color: white;
        padding: 15px;
        text-align: center;
        font-size: 24px;
      }
      nav {
        background-color: #333;
        padding: 10px;
        text-align: center;
      }
      nav a {
        color: white;
        text-decoration: none;
        padding: 10px 15px;
        display: inline-block;
      }
      nav a:hover {
        background-color: #555;
      }
      .container {
        width: 80%;
        margin: auto;
        padding: 20px;
        background: white;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }
    </style>
  </head>
  <body>
    <div class="container">
      <div class="header">
        <h1>MAIT</h1>
      </div>
      <div class="nav">
        <a href="#home">Home</a>
        <a href="#about">About</a>
        <a href="#courses">Courses</a>
        <a href="#departments">Departments</a>
        <a href="#faculties">Faculties</a>
        <a href="#library">Library</a>
      </div>
    </div>
  </body>
</html>
```

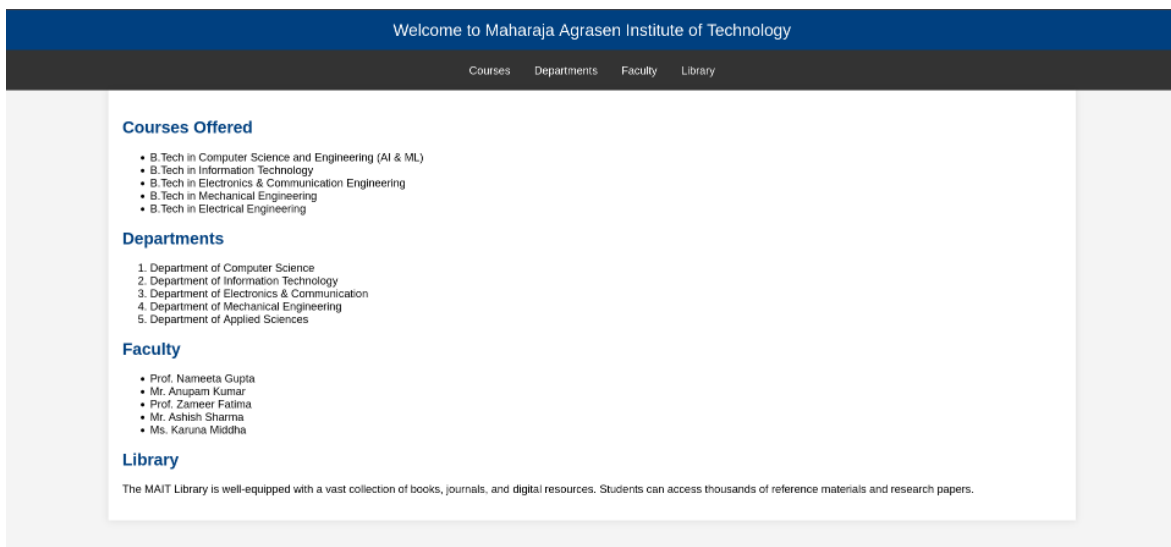
```

    }
    h2 {
    color: #004080;
    }
    </style>
</head>
<body>
    <header>Welcome to Maharaja Agrasen Institute of
Technology</header>
    <nav>
    <a href="#courses">Courses</a>
    <a href="#departments">Departments</a>
    <a href="#faculty">Faculty</a>
    <a href="#library">Library</a>
    </nav>
    <div class="container">
    <section id="courses">
    <h2>Courses Offered</h2>
    <ul>
        <li>B.Tech in Computer Science and Engineering (AI &
ML)</li>
        <li>B.Tech in Information Technology</li>
        <li>B.Tech in Electronics & Communication
Engineering</li>
        <li>B.Tech in Mechanical Engineering</li>
        <li>B.Tech in Electrical Engineering</li>
    </ul>
    </section>
    <section id="departments">
    <h2>Departments</h2>
    <ol>
        <li>Department of Computer Science</li>
        <li>Department of Information Technology</li>
        <li>Department of Electronics & Communication</li>
        <li>Department of Mechanical Engineering</li>
        <li>Department of Applied Sciences</li>
    </ol>
    </section>
    <section id="faculty">
    <h2>Faculty</h2>
    <ul>
        <li>Prof. Nameeta Gupta</li>
        <li>Mr. Anupam Kumar</li>
        <li>Prof. Zameer Fatima</li>
        <li>Mr. Ashish Sharma</li>
        <li>Ms. Karuna Middha</li>
    </ul>
    </section>
    <section id="library">
    <h2>Library</h2>

```

```
<p>
    The MAIT Library is well-equipped with a vast
collection of books,
    journals, and digital resources. Students can access
thousands of
    reference materials and research papers.
</p>
</section>
</div>
</body>
</html>
```

Output



Program 3

Aim :- Write html code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background color.

Source Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>Nested Frames</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <div class="container">
      <iframe src="frame1.html" class="frame"></iframe>
      <iframe src="frame2.html" class="frame"></iframe>
    </div>
  </body>
</html>
```

Frame1.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>Frame 1</title>
    <style>
      .container {
        display: grid;
        grid-template-columns: 1fr 1fr;
        height: 100vh;
      }
      .frame {
        width: 100%;
        height: 100%;
        border: none;
      }
    </style>
```



```
    }  
    </style>  
</head>  
<body>  
    <h2>Subframe 1</h2>  
</body>  
</html>
```

Subframe2.html

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Subframe 2</title>  
    <style>  
      body {  
        background-color: lightcoral;  
        text-align: center;  
        padding: 20px;  
      }  
    </style>  
  </head>  
  <body>  
    <h2>Subframe 2</h2>  
  </body>  
</html>
```

Subframe3.html

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Subframe 3</title>  
    <style>  
      body {  
        background-color: lightgreen;  
        text-align: center;  
        padding: 20px;  
      }  
    </style>  
  </head>  
  <body>  
    <h2>Subframe 3</h2>  
  </body>  
</html>
```

subframe4.html

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

```
<head>
  <title>Subframe 4</title>
  <style>
    body {
      background-color: lightgoldenrodyellow;
      text-align: center;
      padding: 20px;
    }
  </style>
</head>
<body>
  <h2>Subframe 4</h2>
</body>
</html>
```

Output

