

PRACTICAL – 1

Aim: Install and Configure PHP, Web Server and MYSQL.

Exercise:

1) Prepare report on Different web terminologies and introduction of PHP.

- a) Website:** A website is a collection of interconnected web pages, often linked together through hyperlinks that are accessible online. Websites can be created and managed by individuals, companies, educational institutions, governments, or organizations to serve various purposes, such as sharing information, providing services, or facilitating communication.
- Ecommerce Websites: Amazon, Myntra, Flip cart etc.
 - Educational Websites: GeeksForGeek, W3Schools etc.
- b) Web Pages:** A web page is a single page within a website that contains a specific user interface designed to display content or interact with users. Each web page serves a unique purpose, such as providing information, facilitating user input, or offering interactive features.
- Login Web Page
 - Dashboard Web Page etc.
- c) Web Browser:** A web browser is a software application that enables users to access websites and their web pages over the internet. Popular web browsers include Chrome, Firefox, Edge, Safari, and others, each offering unique features and functionality to enhance the browsing experience.
- Google
 - Microsoft Edge etc.
- d) Web Server:** A web server is a system that provides services to users by hosting websites and delivering web pages upon request. It processes and responds to requests from web browsers, allowing users to access the content of any website over the internet.
- Apache Server
- e) HTTP & HTTPS:** Protocols used for communication between a web browser and a web server.
- HTTP: Hypertext Transfer Protocol (non-secure).
 - HTTPS: Secured HTTP with encryption using SSL/TLS.
- f) URL (Uniform Resource Locator):** The address of a web page or resource on the internet.
- Homepage URL: <https://www.youtube.com>

g) Domain Name: The human-readable address of a website, mapped to an IP address.

- google.com
- amazon.in

h) DNS (Domain Name System): A system that translates domain names into IP addresses to locate web servers.

- **Domain Name:** facebook.com , **IP Address:** 157.240.20.35

❖ **PHP :**

- PHP Stands for Hypertext Preprocessor.
- PHP is a server-side scripting language designed for web development. It is used to create dynamic and interactive websites by processing user input, interacting with databases, and generating HTML content.
- Key Features:
 - Open-source and free.
 - Integrates with MySQL and other databases.
 - Embeds easily into HTML.

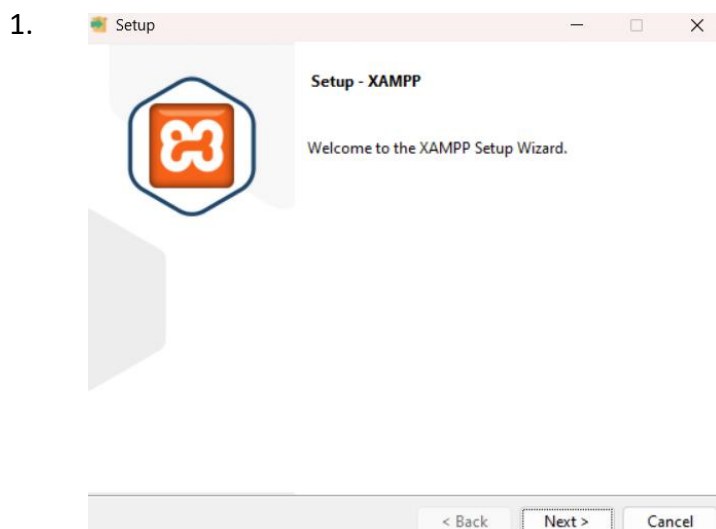
2) Do Environment Setup of WAMP or XAMPP or LAMP or SAMP Server.

Step 1: Download XAMPP

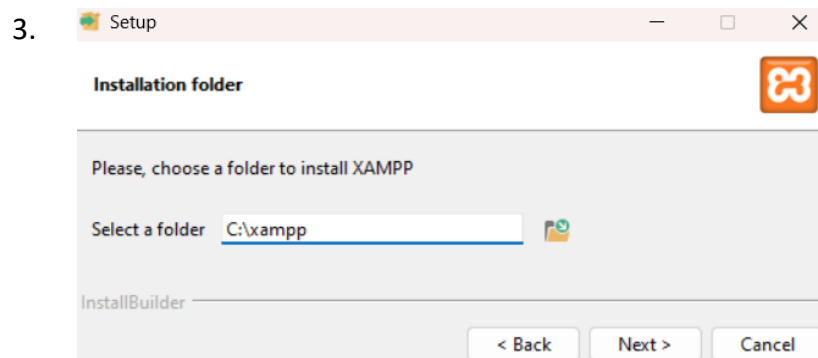
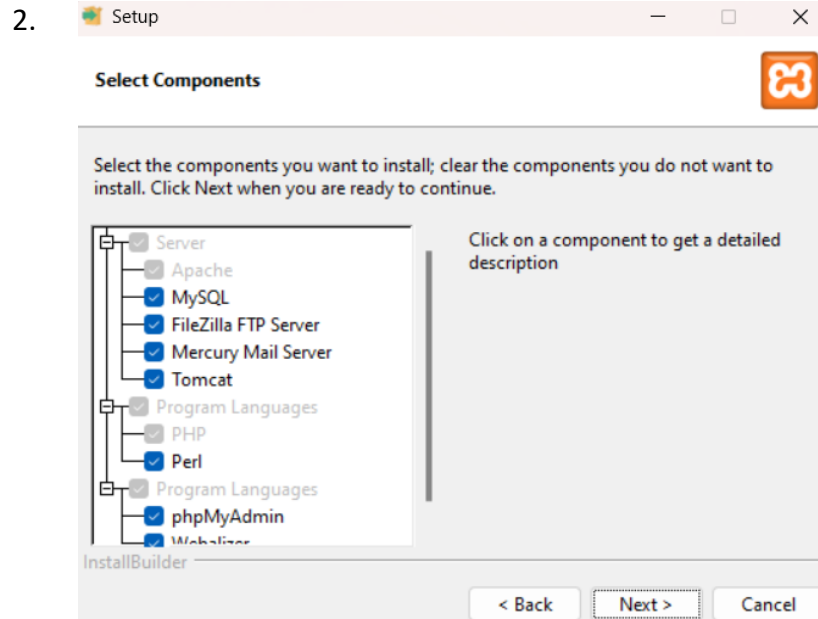
- Go to the official XAMPP website: <https://www.apachefriends.org>.
- Choose the appropriate version of XAMPP for your operating system (Windows, macOS, or Linux).
- Click on the Download button and wait for the download to complete.

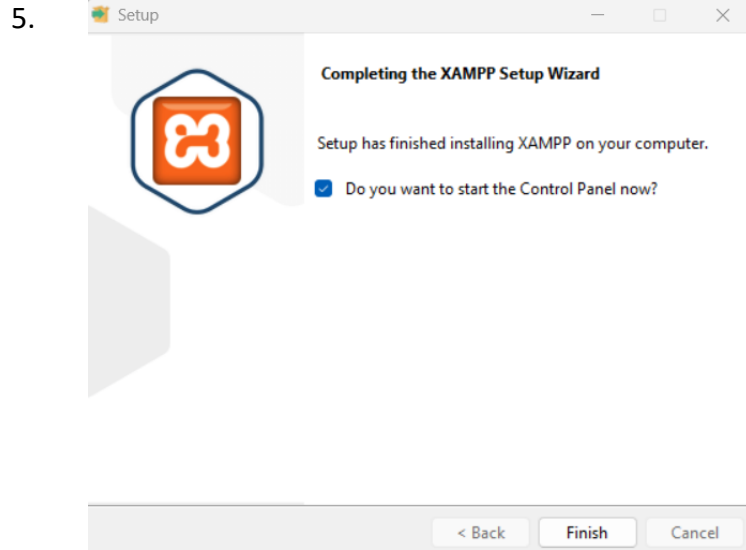
Step 2: Install XAMPP

- Locate the downloaded file and double-click it to run the installer.
- If prompted by the system, allow the installer to make changes to your computer.



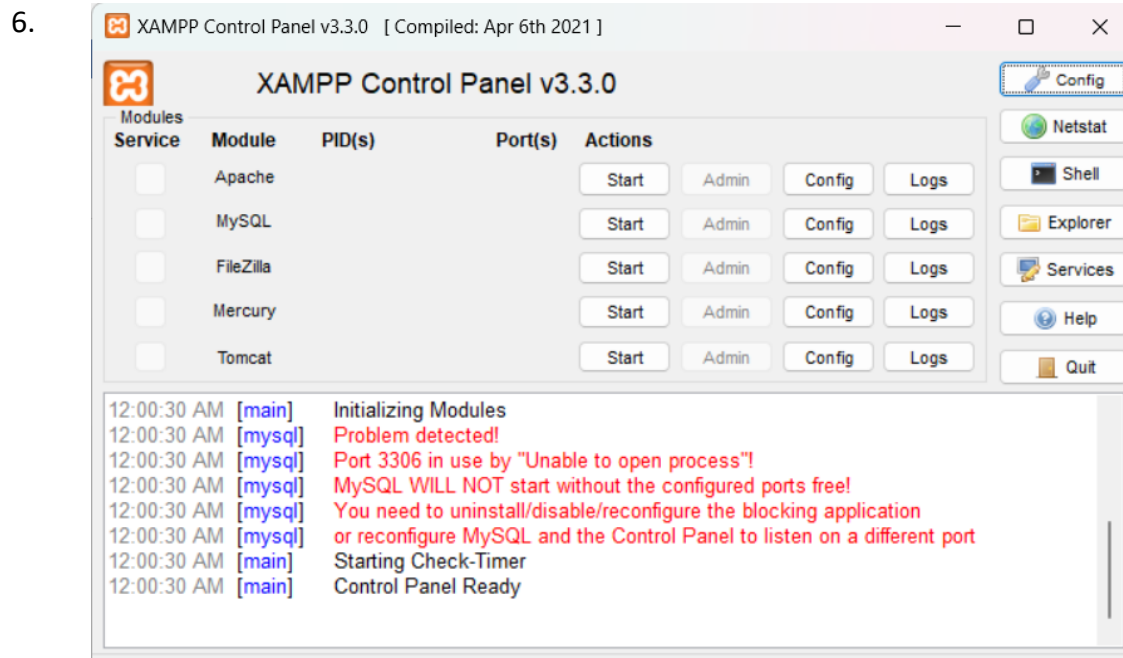
- Follow the installation wizard:
- Choose the components you want to install (e.g., Apache, MySQL, PHP).
 - Select the installation folder (default is usually C:\xampp for Windows).
 - Click Next and then Install.





Step 3: Launch XAMPP Control Panel

- After the installation is complete, open the XAMPP Control Panel.
- Start the services:
 - Click on **Start** for Apache to run the web server.



3) Understand Services of WAMP or XAMPP Server.

- XAMPP is an open-source web server solution package that provides an easy way to set up a local server environment for developing and testing websites or web applications. It is widely used by developers due to its simplicity and flexibility. Below are the services provided by XAMPP and their components:

- **Cross Platform Support (X):** The "X" in XAMPP stands for "Cross-Platform," meaning it is compatible with various operating systems like Windows, Linux, and macOS.
- **Apache Server (A):** Apache is the web server included in XAMPP. It is responsible for handling HTTP requests and serving web pages to users.
- **MYSQL or Maria DB (M):** XAMPP includes MySQL or Maria DB as the database management system. These databases store and manage data for dynamic websites or applications.
- **PHP – Hypertext Preprocessor (P):** PHP is a server-side scripting language used for creating dynamic and interactive web pages. XAMPP allows developers to write and execute PHP code on their local server.
- **Perl (P):** Perl is another server-side scripting language included in XAMPP.

4) Write a Program to Print “Welcome to PHP”.

File: Pr1.php

```
<?php
    echo "Welcome to PHP"
?>
```

Output: localhost/23012022021/Pr1.php

