**Prctical 6**

**Aim** : Introduction to PHP and configure it to work with Apache Web Server.

**Theory** :

It seems you want to install Visual Studio Code (VS Code), PHP, and XAMPP on a Windows system. Here are the step-by-step instructions to do so:

**Install Visual Studio Code (VS Code):**

Download the installer for VS Code from the official website: Download Visual Studio Code.

Run the installer and follow the on-screen instructions to complete the installation.

**Install PHP:**

Download the PHP installer from the official PHP website: Download PHP.

Once downloaded, extract the contents of the ZIP file.

Place the extracted PHP folder in the desired location (e.g., C:\php).

Set up environment variables for PHP:

Open System Properties.

Go to the "Advanced" tab and click on "Environment Variables".

Under "System Variables", click "New" and add the PHP installation directory to the PATH variable (e.g., C:\php).

**Install XAMPP**:

Download the XAMPP installer from the official website: Download XAMPP.

Run the installer and follow the on-screen instructions to complete the installation.

During the installation process, choose the installation directory (e.g., C:\xampp).

Set up environment variables for XAMPP:

Open System Properties.

Go to the "Advanced" tab and click on "Environment Variables".

Under "System Variables", click "New" and add the XAMPP installation directory to the PATH variable (e.g., C:\xampp).

Create and Run a PHP Program:

Inside the XAMPP installation directory, navigate to the "htdocs" folder (e.g., C:\xampp\htdocs).

Create a folder for your PHP programs inside the "htdocs" directory.

Inside the folder created in the "htdocs" directory, create your PHP program file (e.g., filename.php).

**Write your PHP code in the program file.**

Open a web browser and type the following URL in the address bar: localhost/foldername/filename.php.

Replace "foldername" with the name of the folder you created in the "htdocs" directory.

Replace "filename.php" with the name of your PHP program file.

Press Enter to run the PHP program, and you should see the output in the web browser.

**Program :**

To print "Hello, World!" in PHP, you can create a simple PHP script as follows:

|  |
| --- |
| **<?php**  **echo "Hello, World!";**  **?>** |

Save this code in a file with a .php extension, for example, hello\_world.php.

To run this PHP script, you can place it in the htdocs folder of your XAMPP installation (if you've followed the XAMPP setup), and then access it through your web browser using the localhost URL. For example, if you placed hello\_world.php directly in the htdocs folder, you can access it at http://localhost/hello\_world.php.

When you access this URL, you should see "Hello, World!" printed on the screen. This demonstrates the basic functionality of a PHP script printing output to the web browser.

**Conclusion:**

By following the steps outlined above, you have successfully installed Visual Studio Code (VS Code), PHP, and XAMPP on your Windows system. Additionally, you have configured PHP to work with the Apache web server provided by XAMPP.

This setup allows you to write PHP code in VS Code, host your PHP programs using the Apache server provided by XAMPP, and access them through your web browser using the localhost URL.

With PHP and Apache configured, you can now begin developing dynamic web applications, websites, and scripts using PHP scripting language. You have also learned how to set up the environment variables for PHP and XAMPP, which ensures smooth execution of PHP scripts from any directory on your system.