**Supervised Lab – 1**

**Network**

1. Briefly explain what you understand (functionalities, role) by the following terms.
   1. Server, Client, Web server, email server, DNS Server
   2. host, localhost, 127.0.0.1
   3. IP Address, Port, IPv4, IPv6
2. What is the IP address of your network connection?
3. Find few sockets (IP-Address:Port pairs) used in your system.
4. Name commonly used server types.

**Install XAMPP**

1. What are the popular software available for setting up a local environment for web application development?
2. Download and install XAMPP.
3. Run XAMPP control panel and *start* Apache web server.
4. Test if Apache web server is installed and running.
5. Test if PHP application server is installed and running.
6. What is the *document root* directory of Apache server?

**My First Web Page in PHP**

1. Hello World
   1. Create a new file called test.php in the Apache document root directory (C:\xampp\htdocs\test.php), containing the following php code.

<?php

echo “**Hello, World!**”;

?>

* 1. Run any web browser and open *localhost/test.php.* This should display **Hello, World!.**
  2. *Inspect* the page to see the html script of the page test.php. Why there are no php code in it?

**Install a Code Editor**

1. Install a suitable code editor of your choice Eg VS Code (recommended), Sublime, Atom, ... Code editor should have the inbuilt support for PHP and HTML such as code formatting *intelisense* for syntax, ..etc.
2. If applicable, install helpful addons.

**My First Web Site in PHP**

1. Create a new folder *a01* in the *htdocs*
2. Create the file “index.php” in *a01*.
3. Add php code to *index.php* to display “Welcome to SSP”.
4. Add comment indicating the task of the php code.
5. Load the page to the browser and make sure the functionality

**Exercises: Use PHP to do the following**

1. Display information on the installed PHP version.

<?php

phpinfo();

?>

1. Display your name, CB Number, Telephone, University Name.
2. What is the difference between **echo** and **print**?
3. How to concatenate strings in PHP?
4. What is the difference between strings written as “This is a text” and ‘This is a text’.

**Online Reference**

* [PHP Tutorial (w3schools.com)](https://www.w3schools.com/php/default.asp)

**PHP Syntax**

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| ***PHP Code*** |
| <?php    // PHP code goes here  ?> |

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| ***Use of echo*** |
| <?php    echo "Hello, World!";    echo "He’ll’o, World!";    echo "He\”ll\”o, World!";      echo ‘Hello, World!’;    echo ‘H”ll”o, World!’;    echo ‘He\’ll\’o, World!’;    echo “Hello” , “World”;  echo “Hello” . “World”;  echo ‘Hello’ , ‘World’;  echo ‘Hello’ . ‘World’;  ?> |

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| ***HTML in PHP*** |
| <?php    echo "Hello,<br> World!";    echo "<br><b>Hello,</b> World!";    echo "<br><h2>Hello, World!</h2>";  ?>  ?> |

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| ***PHP in HTML*** |
| <!DOCTYPE html>  <html>      <head><title>PHP in HTML</title></head>  <body>  <?php    echo "Hello,World!";  ?>  </body>  </html> |

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| ***PHP and HTML Comments*** |
| <!DOCTYPE html>  <html>      <head><title>PHP in HTML</title></head>  <body>  <!-- HTML Comment -->  <?php    echo "Hello,World!"; // PHP Comment (signle line only)    /\*    PHP Comment (multiple lines)    echo "Hello, SSP1";    echo "Hello, SSP2";    \*/  ?>  </body>  </html> |