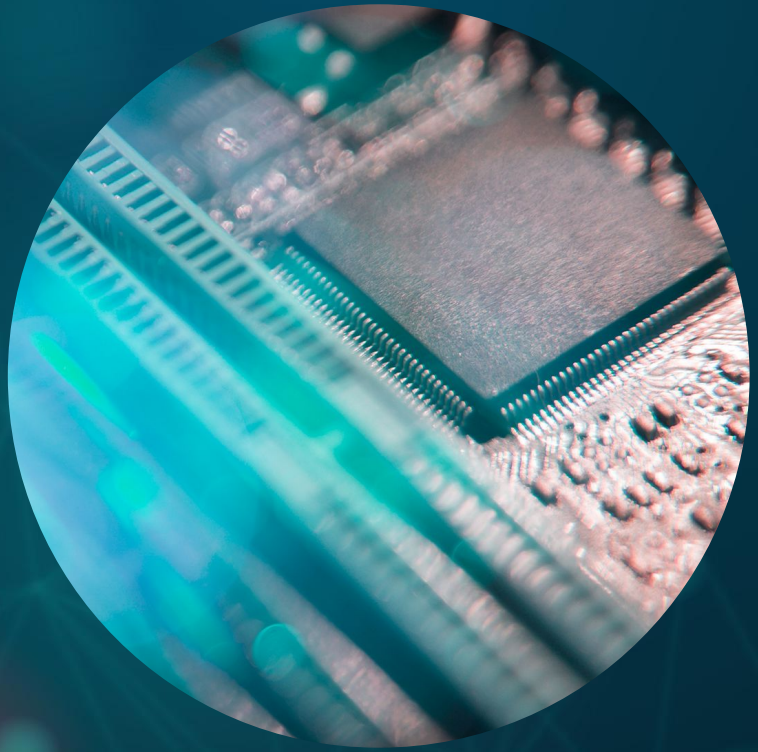
ARM Based Microcontroller

Web Development

Lecture 17



Advanced RISC Machines

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Introduction 01

Web Development

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Light Bulb

we will make a light-bulb web page to send values to a text document file and retrieve values to connect it with the kit.

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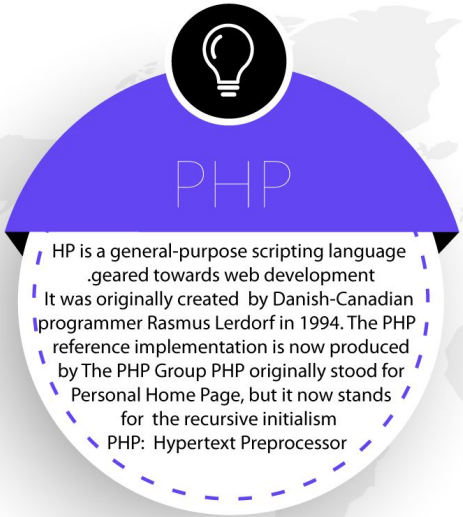
Light Bulb


PHP
HP is a general-purpose scripting language .geared towards web development
It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor

HTML
The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript

HTML 02

Web Development

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HTML

HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

"Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.
HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as <head>, <title>, <body>, <header>, <footer>, <article>, <section>, <p>, , , <img>, <aside>, <audio>, <canvas>, <datalist>, <details>, <embed>, <nav>, <output>, <progress>, <video>, <ul>, <ol>, <li> and many others.

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HTML Syntax

o.html

Users > abdelrahmanhossam > Desktop > o.html > ...

```
<!DOCTYPE html>
<HTML lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, user-scalable=
          no-initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
          <meta http-equiv="X-UA-Compatible" content="ie=edge">
          <title>IOT</title>
    </head>
    <body>

    </body>
</HTML>
```

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HTML Syntax

```
10      <body>
11          <form method="" action="">
12              <input type="radio" name="iot" value="on">
13              <label>on</label>
14              <br>
15              <input type="radio" name="iot" value="off">
16              <label>off</label>
17              <br>
18
19              <input type="submit" value="click">
20          </form>
21      </body>
```

Open Tag

Sent to PHP

name="value " its called Attribute

Closing Tag

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PHP 03

Web Development

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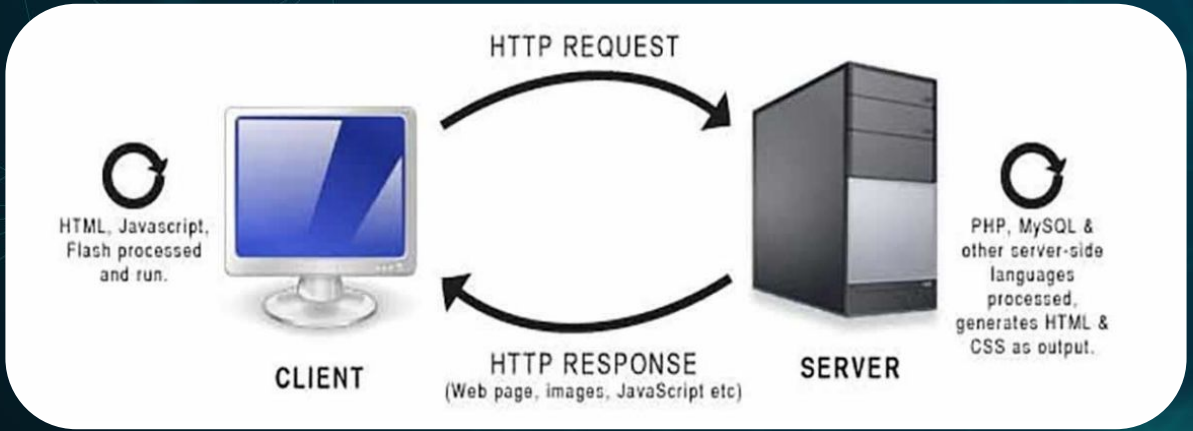
PHP

PHP is a popular general-purpose scripting language that is especially suited to web development. It's a powerful tool for making dynamic and interactive Web pages, a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP. PHP 8 is the latest stable release.

Fast, flexible and pragmatic, PHP powers everything from your blog to the most popular websites in the world.



PHP Syntax

o.html ● a.php ●

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```php
<?php
$action = '';
if(isset($_GET['iot'])){
    $action=$_GET['iot'];
}else{
    $action='0';
}
if($action == '1'){
    echo '<img src ="on.png" style="height:50vh;display:block;margin:0 auto">';
    file_put_contents (filename: 'value.txt', $action);
}elseif($action == '0'){
    echo '<img src ="off.png" style="height:50vh;display:block;margin:0 auto">';
    file_put_contents (filename: 'value.txt', $action);
}
?>

```

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XAMPP 04

Web Development

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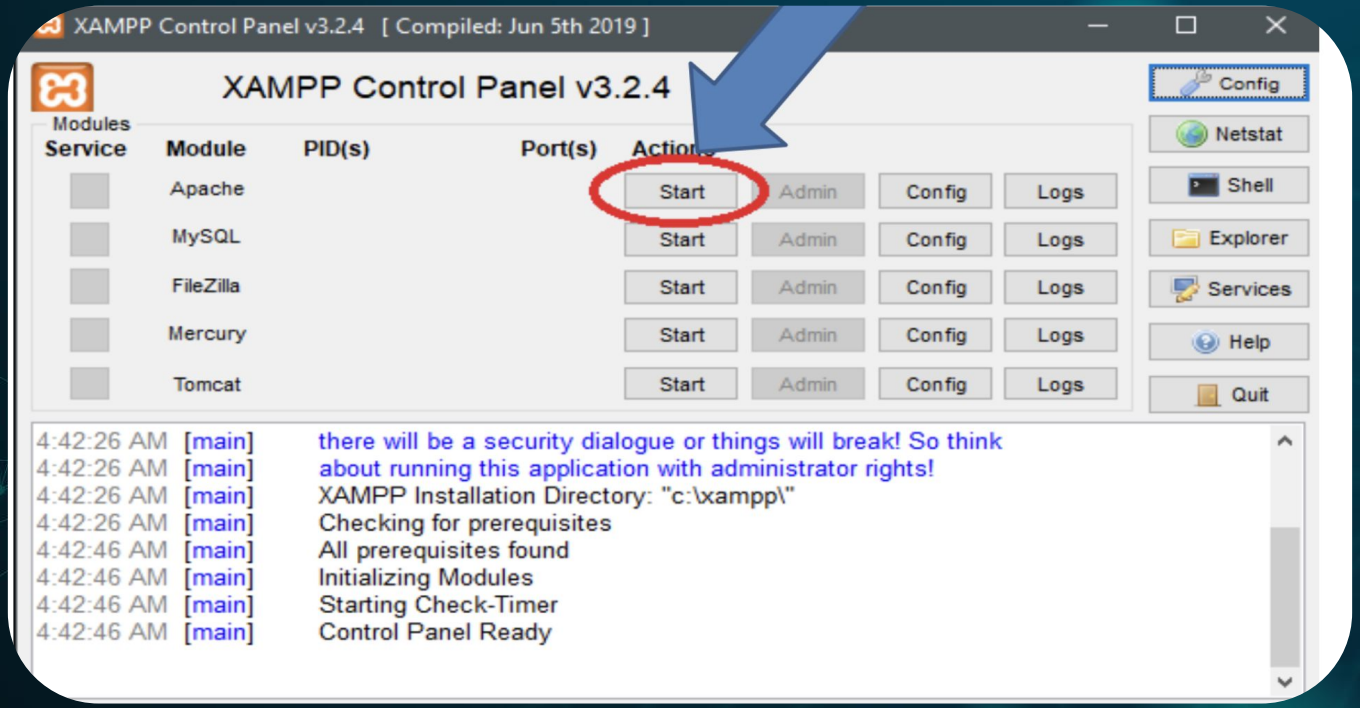
XAMPP

To make a new server side project and local server to test your simple web page go to https://www.apachefriends.org/index.html And download it .

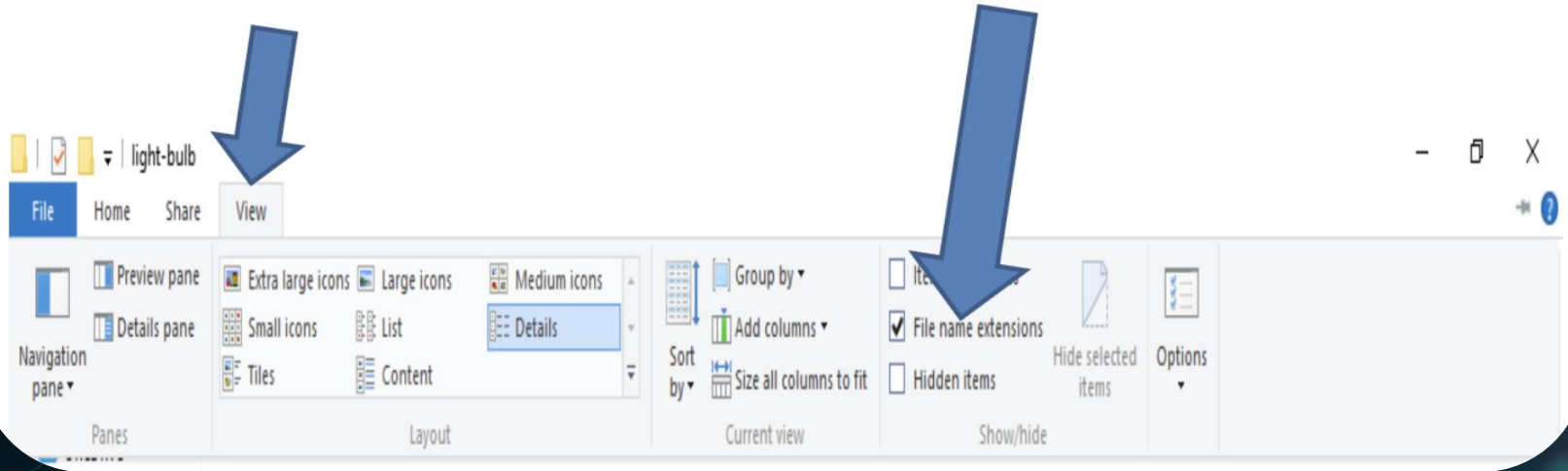
XAMPP

Setup Xampp and go to C:\xampp\htdocs to create your project To open your local server program Start Apache



XAMPP

Note: if extension is hide click at view -> file name extension



STM32 Is AWESOME

Session LAb

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o.html ● a.php ●

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```php
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    file_put_contents (filename: 'value.txt', $action);
}
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<HTML lang="en">
    <head>
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          <meta http-equiv="X-UA-Compatible" content="ie=edge">
          <title>IOT</title>
    </head>
    <body>
        <form method="" action="">
            <input type="radio" name="iot" value="on">
            <label>on</label>
            <br>
            <input type="radio" name="iot" value="off">
            <label>off</label>
            <br>

            <input type="submit" value="click">
        </form>
    </body>
</HTML>
```

THANKS!

Do you have any questions?

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