



ANIL AILANI SIR-9819704277

OFFICE-022-66730730/9892841512

Overview of PHP and Web Applications

- Web Application Architecture
- HTML
- Static vs. Dynamic Web Sites
- Configuring Apache, MySQL, PHP (WAMP)
- Start Programming (My First PHP program)

Basic Scripting and Looping Constructs

- PHP Scripting Fundamentals
- Print Statement
- Code Blocks
- Primitive Data Types
- Defining Constants and Variables
- Looping Constructs
- While
- Do... While
- For
- Exit & Break

Conditional Constructs

- True and False Expressions
- If, Else and Elseif
- Switch/Case Statement

PHP Operators

- Logical Operators
- Relational Operators
- Bitwise Operators
- Other Operators

Arrays in PHP

- What are Arrays?



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- Usage of Arrays in PHP
- Array Indexing
- Initializing Arrays
- Operating on Arrays
- Sorting Arrays
- One-Dimensional Arrays
- Multi-Dimensional Arrays
- Associative Arrays
- Array Functions

PHP Functions

- Introduction to Functions
- Declaring Functions
- Scope
- Passing Arguments to Functions
- Local and Global Scope
- Passing Arguments to Functions by Value and Reference, Returning Values from a Function
- Using Include Files
- The Require Statement
- Dynamic Function Calls
- Predefined PHP Functions

Configuring and Using MySQL (Connect Database using PHP)

- MySQL as a Client/Server Solution
- Introduction to MySQL Capabilities as a Powerful RDBMS
- Connecting to MySQL
- PHP Functions Specific to MySQL
- Executing SQL Calls
- Select
- Insert
- Fetch
- Update
- Delete
- Using PHP MyAdmin to configure MySQL



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Using Cookies with PHP

- Purpose of Cookies
- Cookie Myths
- Setting Cookies
- Retrieving Cookies
- Expiring Cookies
- Deleting Cookies

Create Shopping Cart Solution

- Session Management & Maintaining State
- Web Application Architecture
- Changing Execution by Redirecting to Other URLs
- Embedding JavaScript within PHP
- Implementing **AJAX**.
- Showing Different Content to Different Browsers
- Getting IP Addresses from Visitors

Advanced Topics

Object Oriented PHP

Handling XML in PHP

Web Service Using SOAP

Development Using MVC Architecture (CodeIgniter Framework)

Working with PHP Open Source solutions

(Study, understand and tweak any Open Source PHP solution to get a customized solution)