



PROGRAMMING IN PHP

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Study Guide

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Introduction to PHP

PHP stands for Hypertext Preprocessor.

PHP is a server-side scripting language used for web development.

It is widely used to create dynamic websites, portals, admin panels, and APIs.

PHP was created by Rasmus Lerdorf in 1994.

Features of PHP

1. Open Source
2. Easy to Learn
3. Fast Execution
4. Database Support
5. Cross Platform
6. HTML Integration

Installing PHP Environment

To run PHP programs, install XAMPP or WAMP server.

XAMPP includes Apache, PHP, and MySQL.

Place PHP files inside the htdocs folder.

Basic PHP Syntax

PHP code starts with `<?php` and ends with `?>`.

The echo statement is used to display output.

```
<?php  
  
echo "Welcome to TechRacine Academy!";  
  
?>
```

Variables and Data Types

Variables are used to store data.

PHP variables start with the \$ symbol.

Common data types are string, integer, float, boolean, and array.

```
<?php

$name = "John";
$age = 25;
$salary = 45000.50;

echo $name;

?>
```

Operators in PHP

Operators are used to perform calculations and comparisons.

Examples include +, -, *, /, ==, and >.

```
<?php

$a = 10;
$b = 5;

echo $a + $b;

?>
```

Conditional Statements

Conditional statements help in decision making.

The if-else statement checks conditions.

```
<?php

$marks = 80;

if($marks >= 50){
    echo "Pass";
}
```

```
}else{  
    echo "Fail";  
}  
  
?>
```

Loops in PHP

Loops execute code repeatedly.

PHP supports for, while, and foreach loops.

```
<?php  
  
for($i = 1; $i <= 5; $i++){  
    echo $i;  
}  
  
?>
```

Functions

Functions are reusable blocks of code.

Functions help reduce code duplication.

```
<?php  
  
function add($a, $b){  
    return $a + $b;  
}  
  
echo add(10,20);  
  
?>
```

Arrays

Arrays store multiple values in a single variable.

PHP supports indexed and associative arrays.

```
<?php

$colors = array("Red", "Blue", "Green");

echo $colors[0];

?>
```

Forms Handling

PHP can collect data from HTML forms.

The \$_POST and \$_GET methods are used.

```
<?php

$name = $_POST['name'];

echo $name;

?>
```

Connecting PHP with MySQL

PHP can connect with MySQL databases using mysqli or PDO.

Database connections are important for web applications.

```
<?php

$conn = mysqli_connect("localhost", "root", "", "academy");

if($conn){
    echo "Connected Successfully";
}

?>
```

Example Programs

The following is a simple PHP program.

```
<?php
```

```
echo "Hello PHP World!";
```

```
?>
```

Summary

PHP is one of the most popular web development languages.

It is easy to learn and powerful for developing dynamic applications.

Understanding PHP basics is important for backend web development.

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