

# PHP Detailed Notes

## 1. Introduction to PHP

PHP (Hypertext Preprocessor) is a popular server-side scripting language especially suited for web development. It can be embedded into HTML.

## 2. Basic Syntax

```
<?php  
  
echo "Hello, World!";  
  
?>
```

## 3. Variables and Data Types

```
<?php  
  
$name = "John";    // String  
  
$age = 25;         // Integer  
  
$price = 19.99;    // Float  
  
$isAvailable = true; // Boolean  
  
?>
```

## 4. Conditional Statements

```
<?php  
  
$age = 20;  
  
if ($age >= 18) {  
    echo "Adult";  
}  
else {  
    echo "Minor";  
}
```

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```
}
```

```
?>
```

## 5. Loops

```
<?php
```

```
for ($i = 0; $i < 5; $i++) {
```

```
    echo "Number: $i\n";
```

```
}
```

```
?>
```

## 6. Functions

```
<?php
```

```
function greet($name) {
```

```
    return "Hello, $name!";
```

```
}
```

```
echo greet("Alice");
```

```
?>
```

## 7. Arrays

```
<?php
```

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

```
foreach ($colors as $color) {
```

```
    echo "$color\n";
```

```
}
```

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```
?>
```

## 8. Associative Arrays

```
<?php  
  
$person = array("name" => "Alice", "age" => 30);  
  
echo $person["name"];  
  
?>
```

## 9. Forms and \$\_GET/\$\_POST

```
<form method="post">  
  
  Name: <input type="text" name="name">  
  
  <input type="submit">  
  
</form>
```

```
<?php  
  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
  
    $name = $_POST["name"];  
  
    echo "Hello, $name";  
  
}  
  
?>
```

## 10. Connecting to MySQL

```
<?php  
  
$conn = new mysqli("localhost", "username", "password", "database");
```

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```
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
  
echo "Connected successfully";  
  
?>
```