

PHP Programming Basics

1. Write a Sample Program in PHP

```
<! DOCTYPE html>
<html>
<body>

<?php
echo "Hello, Welcome to PHP Program<br>";
echo "Computer Engineering, ADI"

?>

</body>
</html>
```

2. Declare Variables in PHP

```
<! DOCTYPE html>
<html>
<body>

<?php
$a = "ADIT";
$b = 'c';
$x = 14;
$y = 102.55;
$z = $x+$y

echo "Hello " . $a. "Welcome";
echo "Total is ". $z;

</body>
</html>
```

3. Declaring Array in PHP

```
<!DOCTYPE html>
<html>
<body>

<?php

$branch = array("Computer","Electronics","Mechanical","Food Processing");
echo $cars[0];

?>

</body>
</html>
```

4. String operations in PHP

```
<!DOCTYPE html>
<html>
<body>

<?php

$a = "Hello everyone, welcome to ADIT";

echo strlen($a);
echo str_word_count($a);
echo strrev($a);
echo strpos($a, "ADIT");
echo str_replace("Hello", "Hi", $a);

?>

</body>
</html>
```

5. Type casting in PHP

```
<?php
```

```
$x = 23465.768; // Cast float to int  
$y = (int)$x;  
echo $y;
```

```
$x = "23465.768"; // Cast string to int  
$y = (int)$x;  
echo $y;  
?>
```

6. If conditions in PHP

```
<?php
```

```
$x = 10
```

```
if ($x >+ 0) {  
    echo "The number is positive";  
} else {  
    echo "The number is negative";  
}
```

```
$dept = "IT";
```

```
switch ($dept) {  
    case "IT":  
        echo "Welcome to Information Technology";  
        break;  
    case "CP":  
        echo "Welcome to Computer Engineering";  
        break;  
    case "EC":  
        echo "Welcome to Electronics & Communication";  
        break;  
    default:  
        echo "Welcome to ADIT";  
}
```

```
?>
```

7. Loops in PHP

//While loop-----

```
<?php
$x = 1;

while($x <= 5) {
    echo "The number is: $x <br>";
    $x++;
}
?>
```

//For Loop-----

```
<?php
for ($x = 0; $x <= 10; $x++) {
    echo "The number is: $x <br>";
}
?>
```

//Do while loop-----

```
<?php
$x = 1;

do {
    echo "The number is: $x <br>";
    $x++;
} while ($x <= 5);
?>
```

8. Functions in PHP

```
<?php
function welcome() {
    echo "Welcome to ADIT";
}

Welcome();

function add(int $a, int $b) {
    return $a + $b;
}

echo add(5, 10);

function branch_name($branch) {
    echo "Welcome to ". $branch. " of ADIT,</br>";
}

branch_name("CP")

?>
```

9. Exceptions in PHP

```
<?php
function divide($a, $b) {
    if($a == 0) {
        throw new Exception("Division by zero");
    }
    return $a / $b;
}

try {
    echo divide(5, 0);
} catch(Exception $e) {
    echo "Unable to divide. ";
} finally {
    echo "Process complete.";
}

?>
```

PHP Form Handling

1. Form Page

```
<html>
<body>

<form action="registration.php" method="post">
Student Name: <input type="text" name="name"><br>
Enrolment Number: <input type="text" name="enrol"><br>
Branch: <input type="text" name="branch"><br>
<input type="submit">
</form>

</body>
</html>
```

2. Background Processing:

Page: Registration.php

```
<html>
<body>

<h2>The details of the student are</h2><br>
Name: <?php echo $_POST["name"]; ?> <br>
Enrolment Number: <?php echo $_POST["enrol"]; ?> <br>
Branch: <?php echo $_POST["branch"]

</body>
</html>
```

File Handling in PHP

1. Open/Close existing file

```
<?php
$myfile = fopen("Aditdata.txt", "r") or die("Error");
echo fread($myfile,filesize("aditdata.txt"));
fclose($myfile);
?>
```

2. Writing into a file

```
<?php
$txt = "Hello students, welcome to ADIT\n";
$myfile = fopen("aditdata.txt", "w") or die("Error");
fwrite($myfile, $txt);
fclose($myfile);

?>
```

Sessions & Cookies

1. Sessions

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php

$_SESSION["col"] = "ADIT";
$_SESSION["branch"] = "CP";

?>

//Checking session variables

<?php
// Echo session variables that were set on previous page
echo "Welcome, your college is " . $_SESSION["col"] . "<br>";
echo "Your Branch is " . $_SESSION["branch"] . ".";
?>

</body>
</html>
```

2. Cookies

```
<?php
$name = "Col";
$value = "ADIT";
setcookie($name, $value, time() + (86400 * 30), "/");
?>

<?php

echo "The parameter is " . $name . "<br>";
echo "Your collge is " . $_COOKIE[$name];
}

?>

<html>
<body>
```