



# LECTURE 3

## Continue fundamentals of PHP

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**WEB DEVELOPMENT 2**

# PHP Loops

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**while** - loops through a block of code as long as the specified condition is true

**do...while** - loops through a block of code once, and then repeats the loop as long as the specified condition is true

**for** - loops through a block of code a specified number of times

**foreach** - loops through a block of code for each element in an array

# The PHP while Loop

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## Example

Print \$i as long as \$i is less than 6:

```
$i = 1;  
while ($i < 6) {  
    echo $i;  
    $i++;  
}
```

# The break Statement

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## Example

Stop the loop when \$i is 3:

```
$i = 1;  
while ($i < 6) {  
    if ($i == 3) break;  
    echo $i;  
    $i++;  
}
```

# The continue Statement

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## Example

Stop, and jump to the next iteration if \$i is 3:

```
$i = 0;  
while ($i < 6) {  
    $i++;  
    if ($i == 3) continue;  
    echo $i;  
}
```

# PHP do while Loop

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## Example

Print \$i as long as \$i is less than 6:

```
$i = 1;  
  
do {  
    echo $i;  
    $i++;  
} while ($i < 6);
```

# Stop the loop when \$x is 3:

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Stop the loop when \$x is 3:

```
for ($x = 0; $x <= 10; $x++) {  
    if ($x == 3) break;  
    echo "The number is: $x <br>";  
}
```

# PHP foreach Loop

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## Example

Loop through the items of an indexed array:

```
$colors = array("red", "green", "blue",  
"yellow");
```

```
foreach ($colors as $x) {  
    echo "$x <br>";  
}
```

# Keys and Values

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## Example

Print both the key and the value from the \$members array:

```
$members = array("Peter"=>"35",  
"Ben"=>"37", "Joe"=>"43");
```

```
foreach ($members as $x => $y) {  
    echo "$x : $y <br>";  
}
```

# PHP Functions

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## Create a Function

```
function myMessage() {  
    echo "Hello world!";  
}
```

## Call a Function

```
function myMessage() {  
    echo "Hello world!";  
}  
myMessage();
```

## PHP Function Arguments

```
function familyName($fname) {  
    echo "$fname Refsnes.<br>";  
}
```

```
familyName("Jani");  
familyName("Hege");  
familyName("Stale");  
familyName("Kai Jim");  
familyName("Borge");
```

# PHP Functions

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The following example has a function with two arguments (\$fname, \$year):

```
function familyName($fname, $year) {  
    echo "$fname Refsnes. Born in $year <br>";  
}
```

```
familyName("Hege", "1975");  
familyName("Stale", "1978");  
familyName("Kai Jim", "1983");
```

**output**

```
Hege Refsnes. Born in 1975  
Stale Refsnes. Born in 1978  
Kai Jim Refsnes. Born in 1983
```

# PHP Default Argument Value

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## Example

```
function setHeight($minheight = 50) {  
    echo "The height is : $minheight <br>";  
}
```

```
setHeight(350);  
setHeight(); // will use the default value of 50  
setHeight(135);  
setHeight(80);
```

# PHP Functions - Returning values

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## Example

```
function sum($x, $y) {  
    $z = $x + $y;  
    return $z;  
}
```

```
echo "5 + 10 = " . sum(5, 10) . "<br>";  
echo "7 + 13 = " . sum(7, 13) . "<br>";  
echo "2 + 4 = " . sum(2, 4);
```

# Scientific references

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1- <https://www.geeksforgeeks.org/>

Thank  
you!