

# PHP Fundamental

## Step 02



We are going to learn about loop , function, advantages, best practices and practical implementations



# PHP LOOP

A Loop is an Iterative Control Structure that involves executing the same number of code a number of times until a certain condition is met.

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**FOR LOOP**



**FOREACH LOOP**



**WHILE LOOP**



**DO WHILE LOOP**

# FOR LOOP

PHP for loop can be used to traverse set of code for the specified number of times.

For loop is used when you already know how many times you want to execute a block of code

It allows users to put all the loop related statements in one place



p1.php

```
3 for($n=1;$n<=10;$n++){  
4     echo "$n";  
5 }
```

# BREAK STATEMENT

- You have already seen the break statement used in an earlier chapter

- It was used to "jump out" of a switch statement

- The break statement can also be used to jump out of a loop

● ● ● p1.php

```
3  for ($x = 0; $x < 10; $x++) {  
4      if ($x == 4) {  
5          break;  
6      }  
7      echo "The number is: $x <br>";  
8  }
```

# CONTINUE STATEMENT

The continue statement breaks one iteration (in the loop)

if a specified condition occurs, and continues with the next iteration in the loop

 p1.php

```
3  for ($x = 0; $x < 10; $x++) {  
4      if ($x == 4) {  
5          continue;  
6      }  
7      echo "The number is: $x <br>";  
8  }
```

# FOREACH LOOP

• **reach loop is used to traverse the array elements. It works only on array and object**

• **It will issue an error if you try to use it with the variables of different datatype.**

• **The foreach loop works on elements basis rather than index.**

• **It provides an easiest way to iterate the elements of an array.In foreach loop, we don't need to increment the value.**

● ● ● p1.php

```
2 $season = array ("Summer", "Winter", "Autumn", "Rainy");
3 foreach ($season as $element) {
4     echo "$element";
5     echo "</br>";
6 }
```

# WHILE LOOP

PHP while loop can be used to traverse set of code like  
for loop

The while loop executes a block of code repeatedly  
until the condition is FALSE. Once the condition gets  
FALSE, it exits from the body of loop.

It should be used if the number of iterations is not  
known.

 p1.php

```
2 $n=1;  
3 while($n<=10){  
4 echo "$n<br/>";  
5 $n++;  
6 }
```

# DO WHILE LOOP

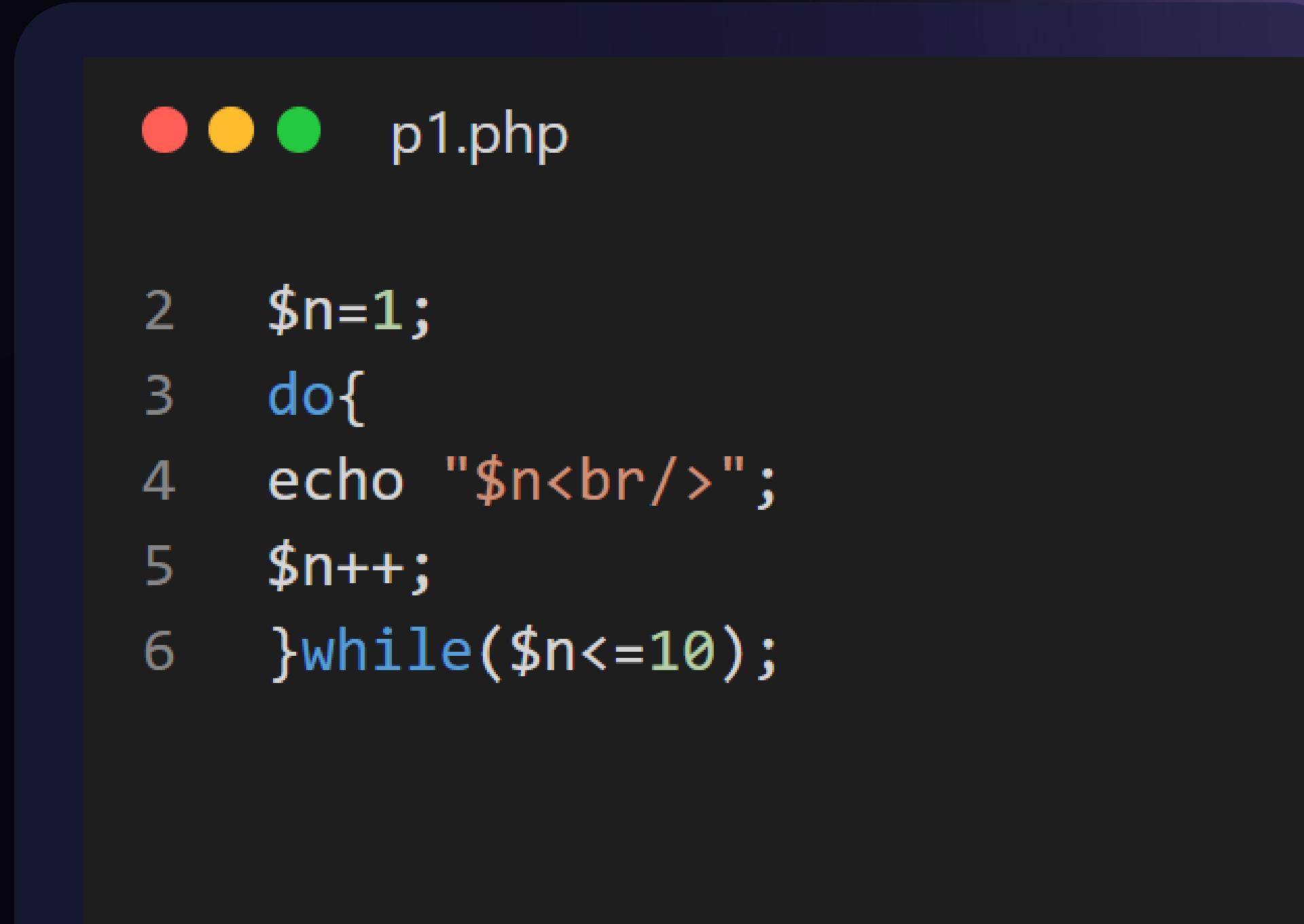
PHP do-while loop can be used to traverse set of code like php while loop

The PHP do-while loop is guaranteed to run at least once

If you have to execute the loop at least once and the number of iterations is not even fixed, it is recommended to use the do-while loop.

It executes the code at least one time always because the condition is checked after executing the code.

The do-while loop is very much similar to the while loop except the condition check. The main difference between both loops is that while loop checks the condition at the beginning, whereas do-while loop checks the condition at the end of the loop.



p1.php

```
2 $n=1;
3 do{
4 echo "$n<br/>";
5 $n++;
6 }while($n<=10);
```



# PHP Function

PHP function is a piece of code that can be reused many times.

It can take input as argument list and return value.  
There are thousands of built-in functions in PHP.

In PHP, we can define Conditional function,  
Function within Function and Recursive function

# PHP FUNCTION

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● ● ● p1.php

```
3 function sayHello(){  
4 echo "Hello PHP Function";  
5 }
```

# PHP FUNCTION ARGUMENTS

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Information can be passed to functions through arguments. An argument is just like a variable.

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Arguments are specified after the function name, inside the parentheses. You can add as many arguments as you want, just separate them with a comma.

● ● ● p1.php

```
2 function sayHello($name){  
3 echo "Hello $name<br/>";  
4 }  
5 sayHello("Sonoo");  
6 sayHello("Vimal");  
7 sayHello("John");
```

# PHP FUNCTIONS - RETURNING VALUES

- 

A function can return a value using the **return** statement in conjunction with a value or object.

- 

Return stops the execution of the function and sends the value back to the calling code.

- 

You can return more than one value from a function using **return array(1,2,3,4)**.

● ● ● p1.php

```
3  function sum(int $x, int $y) {  
4      $z = $x + $y;  
5      return $z;  
6  }  
7  
8  echo sum(5, 10)  
9
```

# PHP RECURSIVE FUNCTION

Call current function within function. It is also known as recursion.

It is recommended to avoid recursive function call over 200 recursion level because it may smash the stack and may cause the termination of script.

● ● ● p1.php

```
3  function display($number) {  
4      if($number<=5){  
5          echo "$number <br/>";  
6          display($number+1);  
7      }  
8  }  
9  
10 display(1);
```

# Advantage of PHP Functions

01

## Code Reusability

PHP functions are defined only once and can be invoked many times, like in other programming languages.

02

## Less Code

It saves a lot of code because you don't need to write the logic many times. By the use of function, you can write the logic only once and reuse it.

03

## Easy to understand

PHP functions separate the programming logic. So it is easier to understand the flow of the application because every logic is divided in the form of functions.

# PRACTICAL IMPLEMENTATION OF LOOP & FUNCTION

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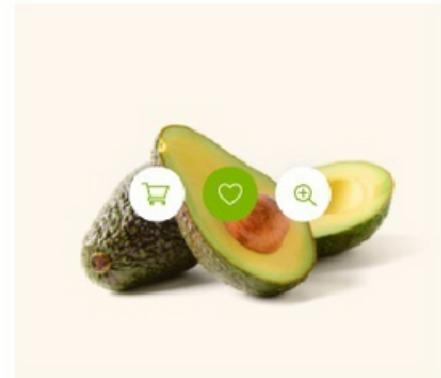
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# PRACTICAL IMPLEMENTATION OF LOOP & FUNCTION

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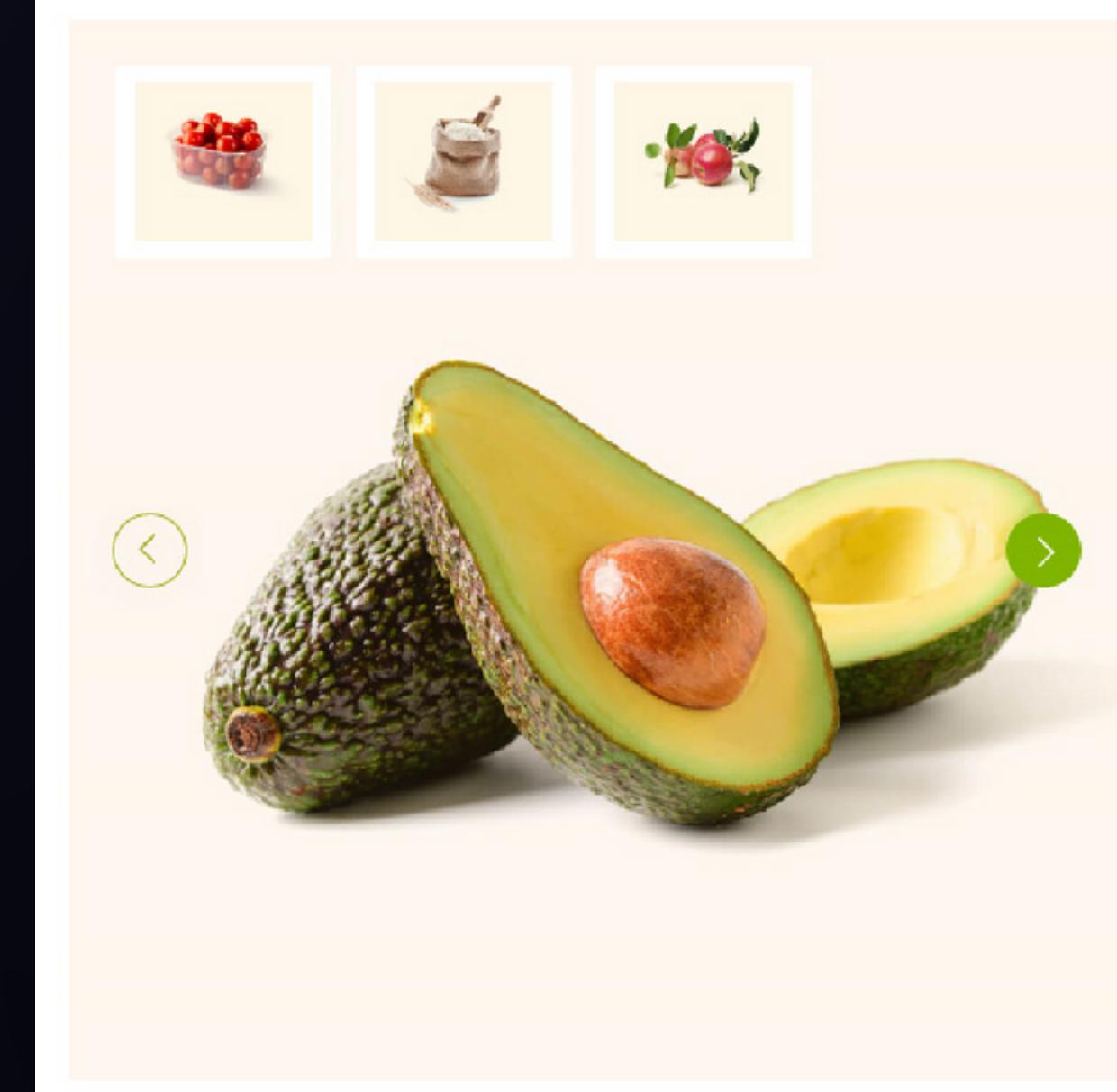
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# PRACTICAL IMPLEMENTATION OF LOOP & FUNCTION

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# PRACTICAL IMPLEMENTATION OF LOOP & FUNCTION

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Continue Shipping

Subtotals: £381.00

Totals: £381.00

Shipping & taxes calculated at checkout

Proceed To Checkout

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	Grap Seedless varieties Color:Brown Quantity: (2kg)	£219.00
	Almonds Nut Butter Color:Brown Quantity: (2kg)	£219.00
	Blood Orange Juice Color:Brown Quantity: (2kg)	£219.00
	papaya Fruit Nutrion Color:Brown Quantity: (2kg)	£219.00

# PRACTICAL IMPLEMENTATION OF LOOP & FUNCTION

**Every Where In  
Any Project**