

In PHP, there are several ways to repeat code, depending on the specific needs of your program. Here are some of the most common ways to repeat code in PHP:

Loops:

Loops allow you to repeat a block of code a certain number of times, or until a certain condition is met. There are three types of loops in PHP:

for Executes a block of code a specified number of times.

```
for ($i = 0; $i < 10; $i++) {  
    echo $i;  
}
```

In this example, the loop will execute 10 times, with the `$i` variable starting at 0 and incrementing by 1 each time through the loop.

while Executes a block of code as long as a specified condition is true.

```
$i = 0;  
while ($i < 10) {  
    echo $i;  
    $i++;  
}
```

In this example, the loop will execute as long as `$i` is less than 10, with the `$i` variable incrementing by 1 each time through the loop.

Explain the procedure to repeat code in PHP.

do-while Executes a block of code at least once, and then continues to execute the code as long as a specified condition is true.

```
$i = 0;
do {
    echo $i;
    $i++;
} while ($i < 10);
```

In this example, the loop will execute at least once, and then continue to execute as long as `$i` is less than 10, with the `$i` variable incrementing by 1 each time through the loop.

Functions

Functions allow you to encapsulate a block of code that can be called multiple times with different inputs. You can define your own functions in PHP, or use built-in functions.

Here's an example of defining a function that squares a number:

```
function square($num) {
    return $num * $num;
}

echo square(4); // Outputs 16
echo square(6); // Outputs 36
```

In this example, the `square` function takes a single parameter `$num`, multiplies it by itself, and returns the result. The function can be called multiple times with different input values.

Include/require

PHP also provides include and require statements that allow you to include a block of code from another file. This can be useful for repeating code that is used across multiple files in your program.

Here's an example:

```
// functions.php
function square($num) {
    return $num * $num;
}

// index.php
require 'functions.php';
echo square(4); // Outputs 16
echo square(6); // Outputs 36
```

In this example, the require statement includes the functions.php file, which defines the square function. The square function can then be called multiple times from within the index.php file.

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