

PHP Error Handling



#PHP Notes

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PHP Error Handling

- Sometimes your application will not run as it supposed to do, resulting in an error. There are a number of reasons that may cause errors, for example:
 - The Web server might run out of disk space
 - A user might have entered an invalid value in a form field
 - The file or database record that you were trying to access may not exist
 - The application might not have permission to write to a file on the disk
 - A service that the application needs to access might be temporarily unavailable
- These types of errors are known as runtime errors, because they occur at the time the script runs. They are distinct from syntax errors that need to be fixed before the script will run.



Basic Error Handling Using the die() Function

```
<?php
if(file_exists("sample.txt")){
    $file = fopen("sample.txt", "r");
} else{
    die("Error: The file you are trying to access doesn't exist.");
}
?>
```



Die () Example

- Die() will not execute next line code.

First Line

Error: The file you are trying to access doesn't exist.

Reporting Level	Description	Example
E_WARNING	Displays warning messages only. Does not halt the execution of the script	<code>error_reporting(E_WARNING);</code>
E_NOTICE	Displays notices that can occur during normal execution of a program or could be an error.	<code>error_reporting(E_NOTICE);</code>
E_USER_ERROR	Displays user generated errors i.e. custom error handler	<code>error_reporting(E_USER_ERROR);</code>
E_USER_WARNING	Displays user generated warning messages	<code>error_reporting(E_USER_WARNING);</code>
E_USER_NOTICE	Displays user generated notices	<code>error_reporting(E_USER_NOTICE);</code>
E_RECOVERABLE_ERROR	Displays error that are not fatal and can be handled using custom error handlers	<code>error_reporting(E_RECOVERABLE_ERROR);</code>
E_ALL	Displays all errors and warnings	<code>error_reporting(E_ALL);</code>

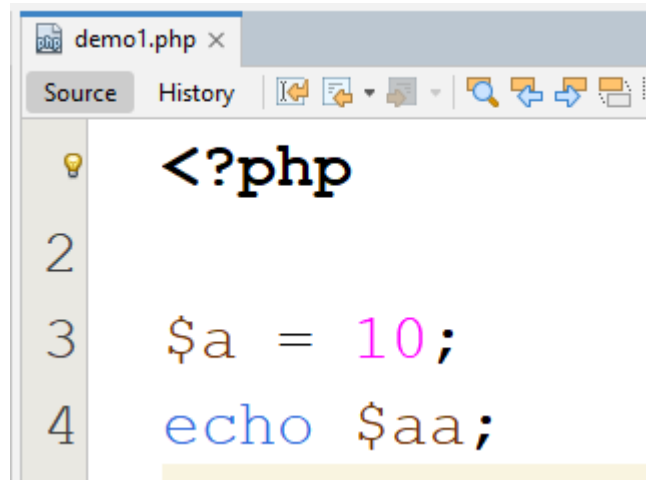


Demo

- <?php
- error_reporting(\$reporting_level);
- ?>

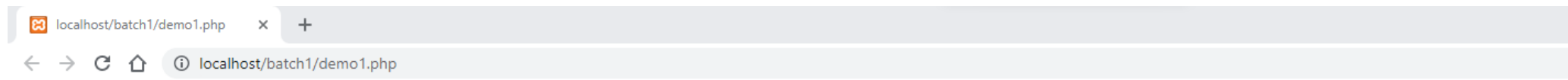


Without



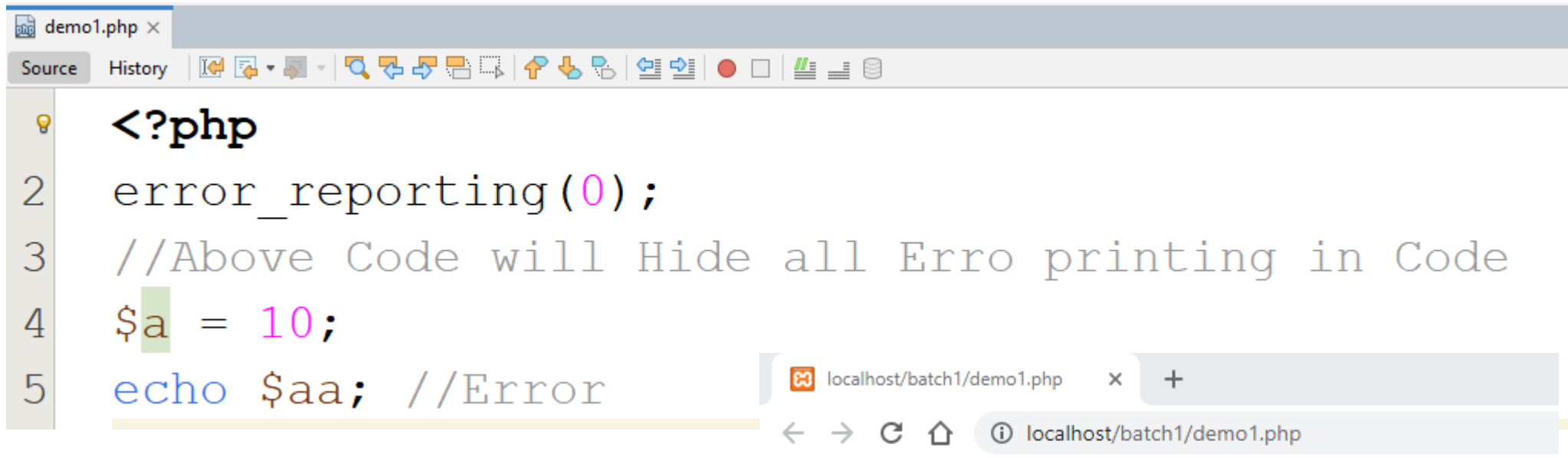
The screenshot shows a code editor window titled 'demo1.php'. The code contains three lines: a PHP opening tag, an assignment statement, and an echo statement. The variable name in the echo statement is misspelled.

```
<?php
2
3 $a = 10;
4 echo $aa;
```



Warning: Undefined variable \$aa in **C:\xampp\htdocs\batch1\demo1.php** on line 4

Error Reporting 0



The screenshot shows a code editor window titled 'demo1.php' with a toolbar and a sidebar. The code in the editor is as follows:

```
<?php
2 error_reporting(0);
3 //Above Code will Hide all Error printing in Code
4 $a = 10;
5 echo $aa; //Error
```

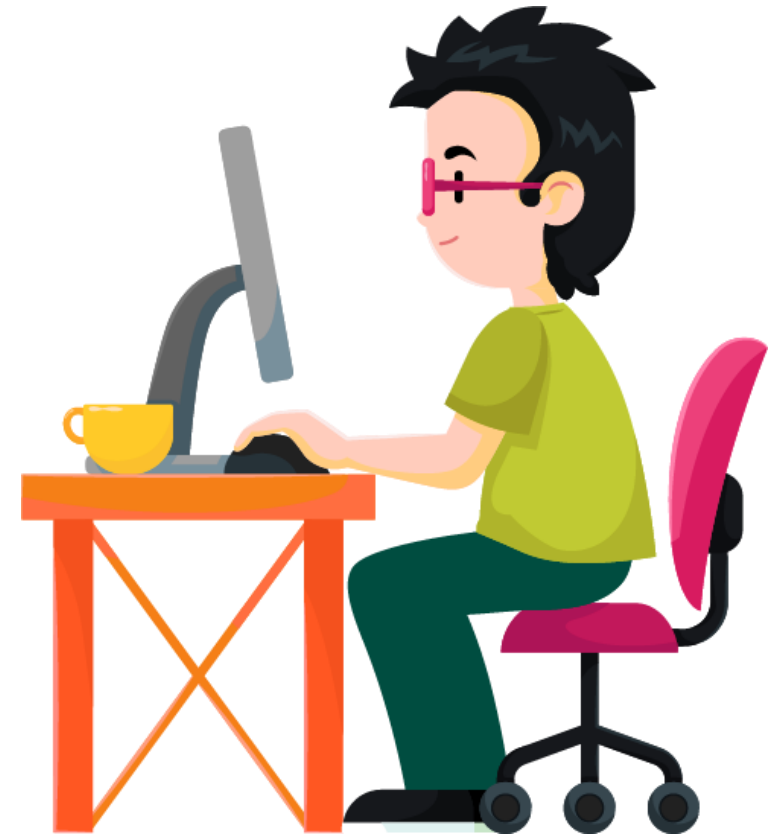
Below the code editor, a browser window is visible with the address bar showing 'localhost/batch1/demo1.php'. The browser tab also displays 'localhost/batch1/demo1.php'.

Examples

- Turn off error reporting
 - `error_reporting(0);`
- Display Only Errors
 - `error_reporting(E_ERROR);`
- Display only warning
 - `error_reporting(E_WARNING);`
- Display All Error and Warning
 - `error_reporting(E_ALL);`



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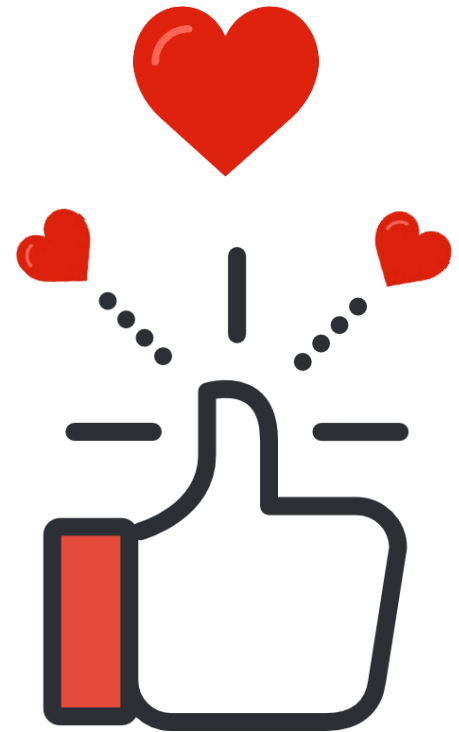
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