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PHP - Boolean

In PHP, "bool" is one of the built-in scalar data types. It is used to express the truth value, and it can be either True or False. A Boolean literal uses the PHP constants True or False. These constants are case-insensitive, in the sense, true, TRUE or True are synonymous.

You can declare a variable of bool type as follows -

```
$a = true;
```

Example

Logical operators (<, >, ==, !=, etc.) return Boolean values.

It will produce the following **output** -

```
bool(true)
```

Boolean Values in Control Statements

Boolean values are used in the construction of control statements such as **if**, **while**, **for** and **foreach**. The behaviour of these statements depends on the true/false value returned by the Boolean operators.

The following conditional statement uses the Bool value returned by the expression in the parenthesis in front of the ${\bf if}$ keyword -

```
$mark=60;

if ($mark>50)
    echo "pass";
```

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```
else
echo "fail";
```

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Converting a Value to Boolean

Use the (bool) casting operator to convert a value to bool. When a value is used in a logical context it will be automatically interpreted as a value of type bool.

A non-zero number is considered as true, only 0 (+0.0 or -0.0) is false. Non-empty string represents true, empty string "" is equivalent to false. Similarly, an empty array returns false.

Example

Take a look at this following example -

```
</>>
                                                                       Open Compiler
<?php
   a = 10;
   echo "$a: ";
   var_dump((bool)$a);
   $a = 0;
   echo "$a: ";
   var_dump((bool)$a);
   $a = "Hello";
   echo "$a: ";
   var_dump((bool)$a);
   $a = "";
   echo "$a: ";
   var_dump((bool)$a);
   $a = array();
   echo "$a: ";
```

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```
var_dump((bool)$a);
?>

It will produce the following output —

10: bool(true)
   0: bool(false)
   Hello: bool(true)
   : bool(false)
   Array: bool(false)
```