

Task 1Week 2

1) what is is set() & empty() functions?
 , what's the difference between them?

- Answer -

it's used to determine the variable is set or not.

A variable considered a set variable if it has a value

other than NULL; in other words, the isset()

function check if the passed variables are declared

and not equal to NULL or not

↳ return true

↳ return false

examples:

\$var1 = " ";

test case 1

var_dump(isset(\$var1)) ==> returns bool(true)

\$var2 = 1

var_dump(isset(\$var2)) ==> returns bool(true)

test case 2

Test Case 3

\$Var 3 = "test";
 Var_dump (isset (\$var3)) \Rightarrow returns also true
 (bool (true))

now, Assume that u don't declare a variable
 and passed Any name of variable

Test Case 4

Code:

Var_dump (isset (\$AnyName))

\Rightarrow returns False

(bool (False))

\Rightarrow bec. there no variable you declared called Any Name
 (Variable doesn't exist.)

\$Var 4 = NULL

Var_dump (isset (\$var4))

Test Case 5

\Rightarrow returns bool (False)

Var_dump (isset (\$Var1, \$Var2, \$Var3)) = true

All of these variables not equal to NULL
 then

\Rightarrow return true

if there is at least one variable equals
 to NULL \Rightarrow returns bool (False)

empty():

~~Checks if the variable exists and empty, returns TRUE~~

It - returns FALSE when a variable exists & has a non-empty value, non-zero values, otherwise RETURNS TRUE

Values that considered empty:

- "" (empty string)

- 0 (0 as integer)

- 0.0 (as float, double)

- "0" (as string)

• NULL

• FALSE

• array() (on empty array)

ex: \$arr = []

var_dump(empty(\$arr))

→ returns True

The Difference

⇒ `isset()` checks if it exists & not equal to NULL
 , `empty` checks if available ~~is not empty~~
 "empty" or not
 (means it has empty value or not)

`isset()` returns true if set & not NULL, false otherwise

`empty()` ; returns FALSE, if it exists & has non empty values, non-zero, return true otherwise

2) What's the meaning of Variable of variable?

```
$var = "name";
```

```
$$var = "Alice" ← Creates a variable $name  

                  & sets it to "Alice"  

                  * $name = "Alice"
```

```
echo $var; → print: name
```

```
echo $name → print: Alice
```

" PHP Variables scope "

③

global variable: Variable declared outside function

Example 1:

Code:

```
<? php
```

```
$var = 5 // global variable
```

```
function f() {
```

```
    echo "Hello world";
```

```
}
```

Note: u can't call
a global variable
inside function
without 'global'
word

local variable: Variable declared inside function

Answer

Example 2:

```
<? php
```

```
function f() {
```

```
    echo "Hello world"
```

```
    $var = 4 // local variable
```

```
}
```


4) What is difference between '?' and '??'?

1) '?' is called ternary operator used like if-else statement

example: Code

<? php

```
$ status = ( $ age >= 18 ) ? "adult" : "minor";
```

return minor ← true ⇒ return adult

2) '??' is called null coalescing operator

Code:

```
$user name = $_GET['username'] ??  
"Guest";
```

If the variable `$_GET['username']`
is not set or is null
assign Guest to it.