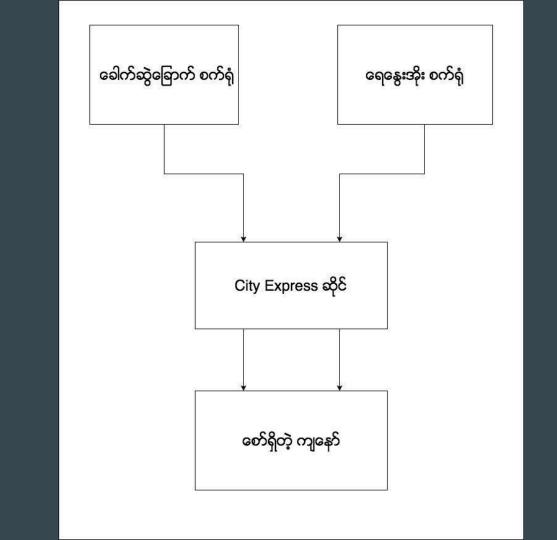
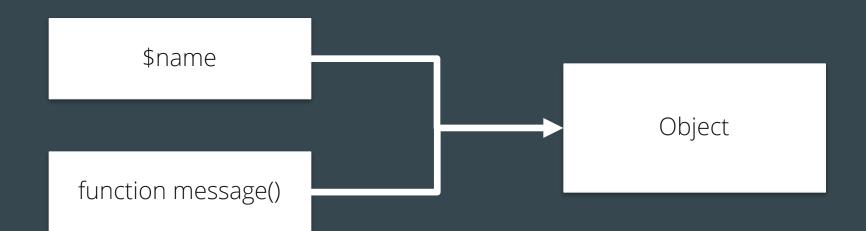
Object-oriented Programming



```
<?php
   $name = "John Doe";
   function message() {
       return "Hello World from John Doe";
?>
```

```
<?php
   $name = "John Doe";
   function message() {
       return "Hello World from John Doe";
   function message() {
       return "Hello World from Mary James";
   $name = "Mary James";
?>
```





- \$name
- function message()

- \$name
- function message()

- Class is The Blueprint of Object
- Variables, Arrays and Functions that declare in Class will be available to use in Object

```
<?php
   class John
       public $name = "John Doe";
       public function message()
           return "Hello World from John Doe";
?>
```



Instantiation – Creation of an Object from a Class

```
<?php
  class John
       public $name = "John Doe";
       public function message()
           return "Hello World from John Doe";
  // Create an Object from Class - Instantiation
  $john = new John();
  // Using Variable from Object
  echo $john->name;
  // Calling Function from Object
  echo $john->message();
?>
```

OOP Vocabulary

- Class
- Object
- Instantiation
- Methods (Functions)
- Properties (Variables, Arrays)

oop-05.php

oop-06.php

```
<?php
   $name = "John Doe";
   function prinfInfo() {
       return $name;
   // Undefined Variable
   echo printInfo();
?>
```

oop-08.php

\$this keyword

Pseudo Variable (PHP declare that for you)

Only Usable in Class

Reference an object of current class

oop-09.php

Constructor Method

Constructor Method is called automatically when an object is created

You can pass arguments to constructor method when you create an object

```
<?php
  class Test
       public function __construct()
           echo "Constructor Method is called";
   $test = new Test();
?>
```

oop-11.php

4 Pillars of Object-oriented Programming

- Abstraction
- Encapsulation
- Inheritance
- Polymorphism

Abstraction

Hide the implementation detail

Inheritance

Code Reuse



oop-12.php

Encapsulation

Hide Data from Other Class

Encapsulation

Visibility Settings

- private
- protected
- public

- Getter and Setter Functions

oop-13.php

oop-14.php

Polymorphism

Many Form

oop-15.php

Why OOP?

If you use OOP, Your Code become

- Reusable
- Extensible
- Maintainable

Interface

Abstract Class

Abstract Function

Exception

Static Keyword

Self Keyword

Type Hinting