What Is Object Oriented Programming?

Ans. Object-oriented programming is based on the concept of objects. In object-oriented programming data structures, or objects are defined, each with its own properties or attributes. Each object can also contain its own procedures or methods.

What Are Properties Of Object Oriented Systems?

Ans. classes, objects, encapsulation, inheritance, abstraction, and polymorphism.

What Is Difference Between Class And Interface?

Ans. Class defines the structure, state (attributes), and behavior (methods) that objects of that class will have.

An interface is a contract that defines a set of method signatures but does not provide method implementations.

It specifies what a class must do (the methods it must implement) without dictating how the class should do it.

What Is Overloading?

Ans. These dynamic entities are processed via magic methods one can establish in a class for various action types.

What Is T\_PAAMAYIM\_NEKUDOTAYIM (Scope Resolution Operator (::) with Example

Ans.

class MathUtility {

public static function add($a, $b) {

return $a + $b;

}

public static function subtract($a, $b) {

return $a - $b;

}

}

// Accessing static methods using ::

$result1 = MathUtility::add(5, 3); // Calls the add method

$result2 = MathUtility::subtract(10, 2); // Calls the subtract method

echo "Addition: " . $result1 . "<br>";

echo "Subtraction: " . $result2;

n this example, the Math Utility class contains two static methods, **add** and **subtract**. To call these methods, you don't need to create an instance of the class; instead, you use the Scope Resolution Operator (::) to access them directly. This is particularly useful for utility classes or when you need to perform operations that are not tied to specific instances of a class.

What are the differences between abstract classes and interfaces?

Ans. An abstract class is a class that cannot be instantiated on its own and is meant to be subclassed (extended).

Define Constructor and Destructor?

Ans. A constructor allows an object to initialize some of its value before it is used. A destructor allows an object to execute some code at the time of its destruction.

How to Load Classes in PHP?

Ans. **Create a Class File**

// MyClass.php

class MyClass {

// Class code here}

**Instantiate the Class:**

$obj = new MyClass();

$obj->someMethod();

How to Call Parent Constructor?

Ans. In order to run a parent constructor, a call to parent:\_\_construct() within the child constructor is required. If the child does not define a constructor then it may be inherited from the parent class just like a normal class method .

Are Parent Constructor Called Implicitly When Create An ObjectOf Class?

Ans. In object-oriented programming, when you create an object of a child class, the constructor of the parent class (also known as the base class or superclass) is not called implicitly by default. Instead, you need to explicitly call the parent class constructor if you want to execute its code. This behavior ensures that the parent class's constructor is executed only when you choose to call it.

What Happen, If Constructor Is Defined As Private Or Protected?

Ans.

A private constructor in Java is used in restricting object creation. It is a special instance constructor used in static member-only classes. If a constructor is declared as private, then its objects are only accessible from within the declared class. You cannot access its objects from outside the constructor class.

What are PHP Magic Methods/Functions? List them Write program for Static Keyword in PHP?

Ans. **List of Magic Methods in PHP**

* \_\_construct()
* \_\_destruct()
* \_\_call($fun, $arg)
* \_\_callStatic($fun, $arg)
* \_\_get($property)
* \_\_set($property, $value)
* \_\_isset($content)
* \_\_unset($content)

Write PHP Script of Object Iteration?

Ans. class Person {

public $name;

public $age;

public $city;

public function \_\_construct($name, $age, $city) {

$this->name = $name;

$this->age = $age;

$this->city = $city;

}

}

$person = new Person("John Doe", 30, "New York");

foreach ($person as $property => $value) {

echo "$property: $value<br>";

}

Use of The $this keyword

$this is a reserved keyword in PHP that refers to the calling object. It is usually the object to which the method belongs, but possibly another object if the method is called statically from the context of a secondary object. This keyword is only applicable to internal methods.

What is jQuery?

Ans. jQuery is a lightweight, "write less, do more", JavaScript library. The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

How are JavaScript and jQuery different?

Ans. JavaScript is a programming language while jQuery is a library that consists of JavaScript code. The jQuery code library comes with ready-made JavaScript code implementations, which you can use to build websites more quickly.

Which is the starting point of code execution in jQuery?

Ans. The jQuery starts its code execution from the $(document). ready() function which is executed whenever the whole HTML DOM is loaded and is totally rendered by the browser, so that the event handlers work correctly without any errors. This $(document).

Document Load Vs Window. Load() jQuery

Ans. The key difference between $(document). ready() and $(window). load() event is that the code included inside onload function will run once the entire page(images, iframes, stylesheets,etc) are loaded whereas the $(document). ready() event fires before all images,iframes etc.

What is the difference between prop and attr?

Ans. prop() method provides a way to explicitly retrieve property values, while . attr() retrieves attributes. For example, selectedIndex , tagName , nodeName , nodeType , ownerDocument , defaultChecked , and defaultSelected should be retrieved and set with the . prop() method.

Explain Difference Between JQuery And JavaScript?

Ans. JavaScript is an independent language and can exist on its own. JQuery is a JavaScript library. It would not have been invented had JavaScript was not there. jQuery is still dependent on JavaScript as it has to be converted to JavaScript for the browser in-built JavaScript engine to interpret and run it.

How We Can Select The Specified Element From The ListOf Elements In ?

If your **<li>** elements have unique **id** or **class** attributes, you can select them directly using **getElementById** or **getElementsByClassName**.

How We Can Implement Animation Effects In Jquery?

The jQuery animate() method is used to create custom animations. Syntax: $(selector).animate({params},speed,callback); The required params parameter defines the CSS properties to be animated.