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1. Program for Deep Clone

1

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```
<?php
class Temp1
{
    public $amt;
}

$obj1 = new Temp1();
$obj1->amt = 500;
$cpy = clone $obj1;

echo "Original copy value :".$cpy->amt;
echo "<br>Original obj value :".$obj1->amt;
$obj1->amt = 736;
echo "<br>Obj value after change :".$obj1->amt;
echo "<br>Copy value after change :".$cpy->amt;
?>
```

2. Program for Shallow Clone

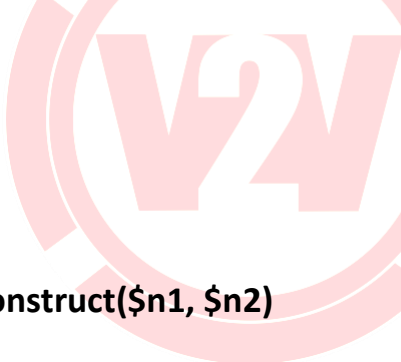
```
<?php
class Temp1
{
    public $amt;
}

$obj1 = new Temp1();
$obj1->amt = 500;
```

```
$cpy = &$obj1;  
  
echo "Original copy value :".$cpy->amt;  
echo "<br>Original obj value :".$obj1->amt;  
$obj1->amt = 736;  
echo "<br>Obj value after change :".$obj1->amt;  
echo "<br>Copy value after change :".$cpy->amt;  
?>
```

3. Construction and Destructor

```
<?php  
class ABC  
{  
    public $var1;  
    public $var2;  
  
    public function __construct($n1, $n2)  
    {  
        $this->var1 = $n1;  
        $this->var2 = $n2;  
        echo "Constructor is called, values are set";  
    }  
  
    public function __destruct()  
    {  
        echo "<br>Destructor is called";  
    }  
}
```



```
public function dispAll()
{
    echo "<br>Value of variable 1 : ".$this->var1;
    echo "<br>Value of variable 2 : ".$this->var2;
}
}
```

```
$obj = new ABC(6,7);
```

```
$obj->dispAll();
```

```
?>
```

4. Math Functions

```
<?php
// math functions
/*
1. sqrt
2. abs
3. floor
4. ceil
5. sin
6. cos
7. min
8. max
9. pow
10. dechex
11. base_convert(value, from_base, to_base)
*/
```



```
echo "Sqrt : ".sqrt(9);  
echo "<br>ABS : ".abs(-69);  
echo "<br>Floor : ".floor(7.98);  
echo "<br>Ceil : ".ceil(7.01);  
echo "<br>Sin : ".Sin(65);  
echo "<br>Cos : ".Cos(65);  
echo "<br>Min : ".min(65, 67, 43);  
echo "<br>Max : ".max(65, 67, 43);  
echo "<br>Pow : ".pow(2,3);  
echo "<br>DecHex: ".dechex(27);  
echo "<br>Base convert : ".base_convert(17, 16, 2);  
?>
```

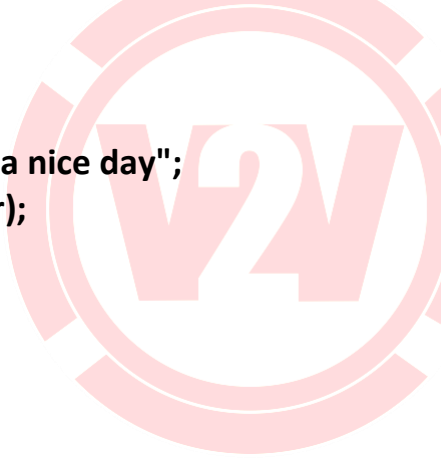
5. Extract and Compact

```
<?php  
// extract functions  
  
$arr = array("key1"=>"item1", "key2"=>"item2", "key3"=>"item3");  
  
extract($arr);  
echo "\$key1 has value $key1<br>";  
echo "\$key2 has value $key2<br>";  
echo "\$key3 has value $key3<br>";  
  
// compact functions  
  
$var1 = "value1";
```

```
$var2 = "value2";  
$var3 = "value3";  
  
$arr2 = compact("var1", "var2", "var3");  
print_r($arr2);  
?>
```

6. Implode and Explode

```
<?php  
// explode function  
  
$str = "hello world its a nice day";  
$arr = explode(" ", $str);  
print_r($arr);  
  
echo "<br>";  
  
// implode function  
  
$arr2 = array("item1", "item2", "item3", "item4");  
$string = implode(" __", $arr2);  
echo $string;  
?>
```



7. Introspection

```
<?php
// Examining an object
class ABC {
    public $a="varA";
    public $b="varB";
    public $c="varC";

    function A(){
    function B(){
    function C(){
}

class XYZ extends ABC{
}

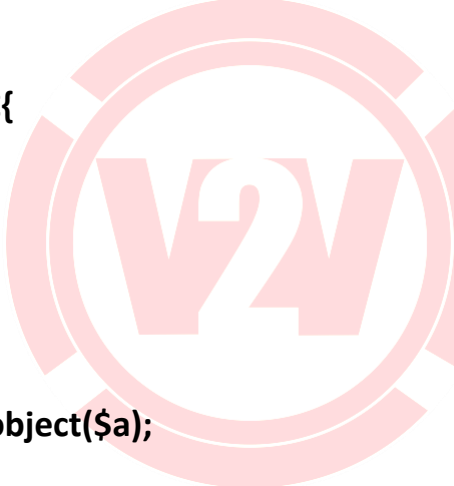
$a = new ABC();
$x = new XYZ();

echo "Is object : ".is_object($a);

echo "<br>Get class : ".get_class($a);

echo "<br>Get object variables : ";
print_r(get_object_vars($a));

echo "<br>Method exists : ".method_exists($a, 'A')
?>
```

A large, semi-transparent pink watermark logo is centered on the page. It features the letters 'V2V' in a bold, stylized font, enclosed within a circular gear-like border with several teeth.

8. Serialization and Unserialization

```
<?php
// serialization in PHP
$var = array("Hello world", 420, "nice", array(21,"Anamika"));

$ser = serialize($var);
echo "Serialized data :- ".$ser;

echo "<br>Unserialized data :- ";
print_r(unserialize($ser));
?>
```

