1. Prime Number:

```php
<?php
function isPrime($num) {
    if ($num < 2) {
        return false;
    }
    for ($i = 2; $i <= sqrt($num); $i++) {
        if ($num % $i == 0) {
            return false;
        }
    }
    return true;
}
$number = 17; // Change this to the desired number
if (isPrime($number)) {
    echo "$number is a prime number.";
} else {
    echo "$number is not a prime number.";
}
?>
```

Output –

17 is a prime number.

2. Factorial:

```php
<?php
function factorial($n) {
    if ($n == 0 || $n == 1) {
        return 1;
    } else {
        return $n * factorial($n - 1);
    }
}
$number = 5; // Change this to the desired number
echo "Factorial of $number is: " . factorial($number);
?>
```

Output –

Factorial of 5 is: 120

3. Number Triangle:

```php
<?php
$rows = 5; // Change this to the desired number of rows
for ($i = 1; $i <= $rows; $i++) {
    for ($j = 1; $j <= $i; $j++) {
        echo $j . " ";
    }
    echo "<br>";
}
?>
```

Output –

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

4. Grade Display:

```php
<?php
$phy = 90;
$chem = 80;
$math = 90;
$total = $phy + $chem + $math;
$per = $total / 3;
echo "Physics Marks Is $phy <br>";
echo "Chemistry Marks Is $chem <br>";
echo "Maths Marks Is $math <br>";
echo "Total Is $total Percentage Is $per <br>";

if ($per >= 70) {
    echo "Congratulation";
    echo "<br> You Get Distinction";
} elseif ($per >= 60) {
    echo "First Class";
} elseif ($per >= 40) {
    echo "Pass Class";
} else {
    echo "You Are Failed";
}
?>
```

Output –

Congratulations

You Get Distinction

5. String Functions:

```php
<?php
$string = "Hello, World!";

// Example string functions
echo "Length of the string: " . strlen($string) . "<br>";
echo "Uppercase: " . strtoupper($string) . "<br>";
echo "Lowercase: " . strtolower($string) . "<br>";
echo "Substring: " . substr($string, 0, 5) . "<br>";
echo "Position of 'World': " . strpos($string, "World") .
"<br>";
?>
```

Output –

Length of the string: 13
Uppercase: HELLO, WORLD!
Lowercase: hello, world!
Substring: Hello
Position of 'World': 7

6. OOP in PHP:

```php
<?php
class Books
{
    public  function name()
    {
        echo " Book Name : - Propal Book <br>";
    }
    public  function price()
    {
        echo "Price : - 90.Rs";
    }
}
$obj = new Books();
$obj->name();
$obj->price();
?>                    Output → Book Name:- Propal Book
```