# 1. Write PHP scripts that demonstrate fundamentals PHP Prime number

```
<?php
$count=0;
$number=2;
while($count<50){</pre>
  $div_count=0;
  for($i=1;$i<=$number;$i++){
    if(($number%$i)==0){
      $div_count++;
  }
    if($div_count<3){</pre>
      echo $number.",";
      $count++;
    $number++;
}
?>
2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,61,67,71,73,79,83,89,97,101,103,107,109,113,12
7, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229.
```

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```
2. Write PHP scripts that demonstrate fundamentals PHP Factorial
<?php
f=1;
$n=5;
for ($i=1;$i<=$n;$i++)
 $f=$f*$i;
echo"using for loop: ". $f;
?>
using for loop: 120
**********************************
<?php
$i=1;
f=1;
while($i <= $n){}
 $f=$f*$i;
 $i++;
echo"using while loop: ". $f;
using while loop: 120
```

\*

# 2. Write PHP scripts that demonstrate fundamentals PHP Number triangle

```
<?php
for($i=1;$i<=5;$i++){
 for(j=1;j=1;j=1;j++)
  echo $i. " ";
echo "<br>";
?>
1
      2 2
      3 3 3
      4 4 4 4
      5 5 5 5 5
***********************************
<?php
for($i=0;$i<=5;$i++){
 for(j=0;j=0;j=1;j++)
  echo"* ";
echo "<br>";
?>
* * * * * *
*********************************
```

4. Write PHP script that will display grade based on criteria given below using the marks obtained in Examination. a. Distinction (70 and above) b. First Class (60 - 69) c. Pass (40 - 59) d. Fail (below 40)

```
<?php
$phy=60;
$chem=60;
$math=60;
$total=$phy+$chem+$math;
$per=$total/3;
echo"Physics mark is $phy<br>";
echo"Chemistry mark is $chem<br>";
echo"Mathematics mark is $math<br>";
echo"Total is$total, Percentage is $per<br/>';
if(per>=70)
      echo"Congratulation";
      echo" <br/>br>You get Distinction";
elseif ($per>=60)
echo"First class";
elseif ($per>=40)
echo"Pass class";
else
echo"You are Fail";
?>
Physics mark is 60
Chemistry mark is 60
Mathematics mark is 60
Total is 180, Percentage is 60
First class
```

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### 5. Write a PHP script to demonstrate different String functions.

```
<?php
// Defining a sample string
$string = "Hello, World!";
// 1. String Length
echo "String Length: " . strlen($string) . "<br/>;
// 2. Word Count
echo "Word Count: " . str_word_count($string) . "<br>";
// 3. Reverse String
echo "Reversed String: " . strrev($string) . "<br/>;
// 4. Find Position of a Word
echo "Position of 'World': " . strpos($string, "World") . "<br>";
// 5. Replace Text
echo "Replaced String: ".str_replace("World", "PHP", $string)."<br/>';
// 6. Convert to Uppercase
echo "Uppercase: " . strtoupper($string) . "<br/>;
// 7. Convert to Lowercase
echo "Lowercase: " . strtolower($string) . "<br/>;
// 8. Substring Extraction
echo "Substring (0-5): " . substr($string, 0, 5) . "<br/>;
// 9. Trim String
$trimString = " Hello PHP! ";
echo "Trimmed String: "" . trim($trimString) . ""<br>";
// 10. Repeat String
echo "Repeated String: " . str_repeat("PHP ", 3) . "<br/>;
// 11. Convert First Character to Uppercase
echo "ucfirst: " . ucfirst("hello world") . "<br/>;
// 12. Convert First Character of Each Word to Uppercase
echo "ucwords: " . ucwords("hello world") . "<br/>;;
// 13. Count Specific Substring
echo "Substring Count: " . substr_count($string, "o") . "<br>";
// 14. Compare Strings
echo "String Comparison: " . strcmp("Hello", "hello") . "<br/>;
// 15. Hash String (MD5)
echo "MD5 Hash: " . md5($string) . "<br/>;
// 16. Hash String (SHA1)
echo "SHA1 Hash: ". sha1($string). "<br/>;
// 17. Escape Special Characters
echo "Escaped String: " . htmlspecialchars("<a href='test'>Test</a>") . "<br>";
// 18. Split String into Array
print_r(str_split($string));
?>
```

String Length: 13

Word Count: 2

Reversed String: !dlroW ,olleH

Position of 'World': 7

Replaced String: Hello, PHP!

Uppercase: HELLO, WORLD!

Lowercase: hello, world!

Substring (0-5): Hello

Trimmed String: 'Hello PHP!'

Repeated String: PHP PHP PHP

ucfirst: Hello world

ucwords: Hello World

Substring Count: 2

String Comparison: -1

MD5 Hash: 65a8e27d8879283831b664bd8b7f0ad4

SHA1 Hash: 0a0a9f2a6772942557ab5355d76af442f8f65e01

Escaped String: <a href='test'>Test</a>

Array ( $[0] \Rightarrow H[1] \Rightarrow e[2] \Rightarrow l[3] \Rightarrow l[4] \Rightarrow o[5] \Rightarrow , [6] \Rightarrow [7] \Rightarrow W[8] \Rightarrow o[9] \Rightarrow r[10] \Rightarrow l[11] \Rightarrow d[12] \Rightarrow !$ )

# 6. Write a PHP script to Demonstrate OOPS Concept in PHP.

```
6.1 Class and Object:
<?php
class Student
     var $rollno;
     var $name;
     var $marks;
     function get_stud_info()
          $this->rollno=1010;
          $this->name="Vishal";
          $this->marks=89.99;
     function disp_stud_info()
          echo "Student Roll No:".$this->rollno;
          echo "Student Name:".$this->name;
          echo "Student Marks:".$this->marks;
$s1=new Student();
$s1->get_stud_info();
$s1->disp_stud_info();
?>
Student Roll No:1010
Student Name : VishalStudent
Marks: 89.99
```

#### 6.2 constructor destructor

```
<?php
class Example {
  var $message;
 // Constructor
  public function __construct($msg)
    $this->message = $msg;
    echo "Constructor called: Object created with message - $this->message<br>";
 // Method to display message
  public function displayMessage()
    echo "Message: $this->message<br>";
 // Destructor
  public function __destruct()
    echo "Destructor called: Cleaning up resources.<br/><br/>;
}
// Creating an object of the class
$obj = new Example("Hello, PHP!");
$obj->displayMessage();
Constructor called: Object created with message - Hello, PHP!
Message: Hello, PHP!
Destructor called: Cleaning up resources.
********************************
```

#### **6.3** Inheritance:

```
<?php
// Parent class
class Animal
  public function eat()
    echo "Animal is eating<br/>
"."<br/>
";
  }
// Child class Dog inheriting from Animal
class Dog extends Animal
  public function bark()
    echo "Dog is barking<br/><br/>"."<br/>';
// Child class Cat inheriting from Animal
class Cat extends Animal
  public function meow()
    echo "Cat is meowing<br/>
<br/>br>"."<br/>
;
  }
// Creating objects of child classes
dog = new Dog();
$dog->eat(); // Inherited from Animal
$dog->bark(); // Defined in Dog
cat = new Cat();
$cat->eat(); // Inherited from Animal
$cat->meow(); // Defined in Cat
?>
Animal is eating
Dog is barking
Animal is eating
Cat is meowing
```

# **6.4 Method Overriding:**

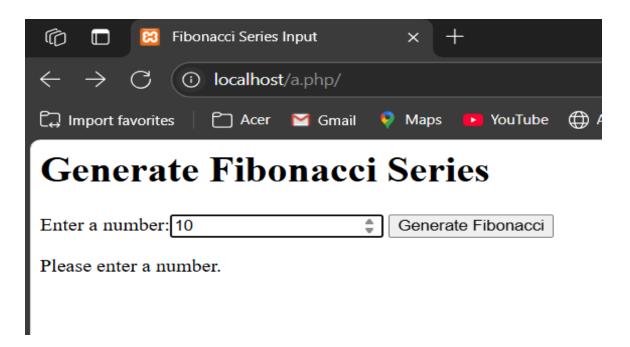
### 6.5 Interface

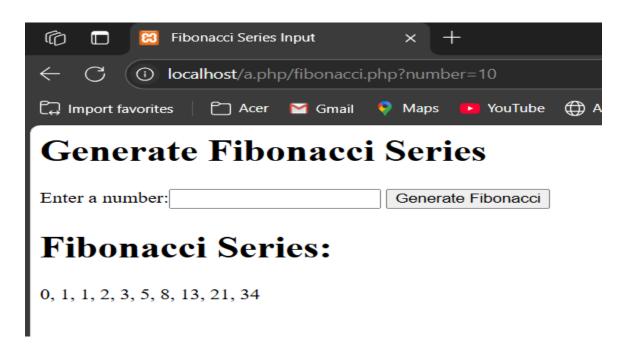
```
<?php
// Define the Bank interface
interface Bank {
  public function deposit($amount);
// Implementing the interface
class Account implements Bank {
  private $balance = 0;
 // Method to deposit money
  public function deposit($amount) {
    $this->balance += $amount;
    echo "Deposited: $amount<br>";
  // Method to check balance
  public function getBalance() {
    return $this->balance;
// Creating an object of Account
$account = new Account();
$account->deposit(500);
echo "Balance: " . $account->getBalance(); // Output: 500
?>
Deposited: 500
Balance: 500
```

### 7. Write a PHP script to demonstrate Form Data Handling using Get and Post methods.

#### **1.GET:**

```
<html>
<head>
  <title>Fibonacci Series Input</title>
</head>
<body>
  <h1>Generate Fibonacci Series</h1>
  <form action="fibonacci.php" method="GET">
    Enter a number:<input type="number" id="number" name="number" required>
    <input type="submit" value="Generate Fibonacci">
  </form>
  <?php
// Check if 'number' is passed via GET
if (isset($_GET['number'])) {
  n = GET['number'];
  // Simple Fibonacci series generator
  a = 0;
  b = 1;
  // Print the first Fibonacci number
  echo "<h1>Fibonacci Series:</h1>";
  echo $a. ", ". $b;
  // Generate the rest of the Fibonacci series
  for (\$i = 2; \$i < \$n; \$i++) {
    c = a + b;
    echo ", " . $c;
    a = b;
    b = c;
  }
} else {
  echo "Please enter a number.";
}
?>
</body>
</html>
```





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#### 2.POST:

```
< html>
<head>
  <title>Simple POST Method Example</title>
</head>
<body>
  <h1>Enter Your Name</h1>
  <!-- Form that uses POST method to submit data -->
  <form action="" method="POST">
    <label for="name">Name:</label>
    <input type="text" name="name" required>
    <input type="submit" value="Submit">
  </form>
  <!-- PHP code to check if the form is submitted -->
  <?php
  if (isset($_POST['name'])) {
    $name = $_POST['name']; // Sanitize the input to prevent XSS
    echo "<h2>Hello, $name! (Submitted via POST)</h2>";
  }
  ?>
</body>
</html>
```

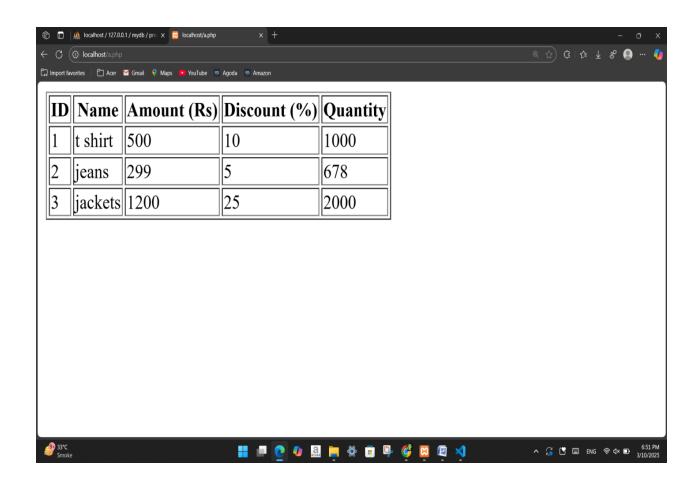




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8. Design a database in MYSQL. Create table in database. Store, Update, Delete and Retrieve data from the table. Display the data from the table.

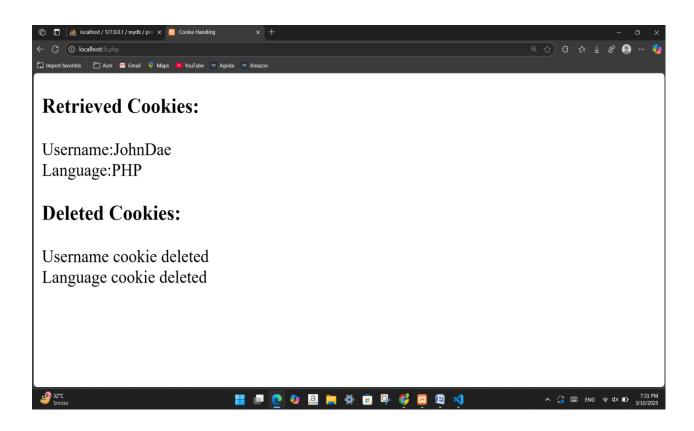
```
<?php
$host="localhost";
$user="root";
$password="";
$database="mydb";
$conn=new mysqli($host,$user,$password,$database);
//check connection
if($conn->connect_error)
{
  echo"connection failed";
}
//retrive data
$sql = "SELECT * FROM products";
$result = $conn->query($sql);
if ($result->num\_rows > 0) {
  echo "";
  echo "
  <th>ID</th>
  Name
  Amount (Rs)
  Discount (%)
  Quantity
 ";
  while ($row = $result->fetch_assoc()) {
    echo "";
    echo "" . $row["id"] . "";
    echo "" . $row["name"] . "";
    echo "" . $row["amount"] . "";
    echo "" .$row["discount"] . "";
    echo "" . $row["quantity"] . "";
    echo "";
  }
  echo "";
}
else {
  echo "No records found.";
  ?>
```



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## 9. Write a PHP script to store, retrieve and delete cookies on your local machine.

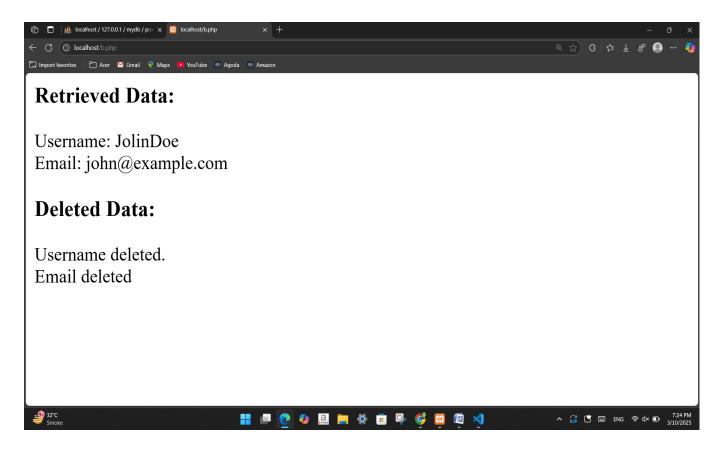
```
<?php
//Store cookies
setcookie("username", "JohnDae", time()+ (86400*30), "/"); // Conkie fin 30 days
setcookie("language", "PHP", time() + (86400 * 30), "/");
// Retrieve cookies
echo "<h3>Retrieved Cookies:</h3>";
if(isset($_COOKIE["username"]))
       echo "Username:". $_COOKIE["username"]."<br>";
else
       echo "Username cookie not set. <br/> ";
if(isset($_COOKIE["language"]))
       echo "Language:".$_COOKIE["language"]."<br>";
else
       echo "Language cookie not set". "<br>";
//Delete cookies
echo "<h3>Deleted Cookies:</h3>";
if(isset($_COOKIE["username"]))
{
       setcookie("username","", time()-3600, "/"); // Set cookie expiration time to past
       echo "Username cookie deleted"."<br/>';
if(isset($_COOKIE["language"]))
       setcookie("language", "", time()-3600,"/");
       echo "Language cookie deleted"."<br/>;;
}
?>
```



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## 10. Write a PHP script to store, retrieve and delete data using session variables.

```
<?php
// Start the session
session_start();
// Store data in session variables
$_SESSION["username"] = "JolinDoe";
$_SESSION["email"] = "john@example.com";
//Retrieve data from session variables
echo "<h3>Retrieved Data:</h3>";
if(isset($_SESSION["username"]))
       echo "Username: ".$_SESSION["username"], "<br>";
else
       echo "Username not set<br>";
if(isset($_SESSION["email"]))
       echo "Email: ".$_SESSION["email"]."<br>";
else
       echo "Email not set.<br>";
}
//Delete data from session variables
echo "<h3>Deleted Data:</h3>";
if(isset($_SESSION["username"]))
{
       unset($_SESSION["username"]);
       echo "Username deleted. <br>";
if(isset($_SESSION["email"])) {
unset($_SESSION["email"]);
echo "Email deleted <br>";
}
// End the session
session_destroy();
?>
```



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