Ex No: 10   **Simple PHP Scripts**

Date: 14/04/2024

Aim:

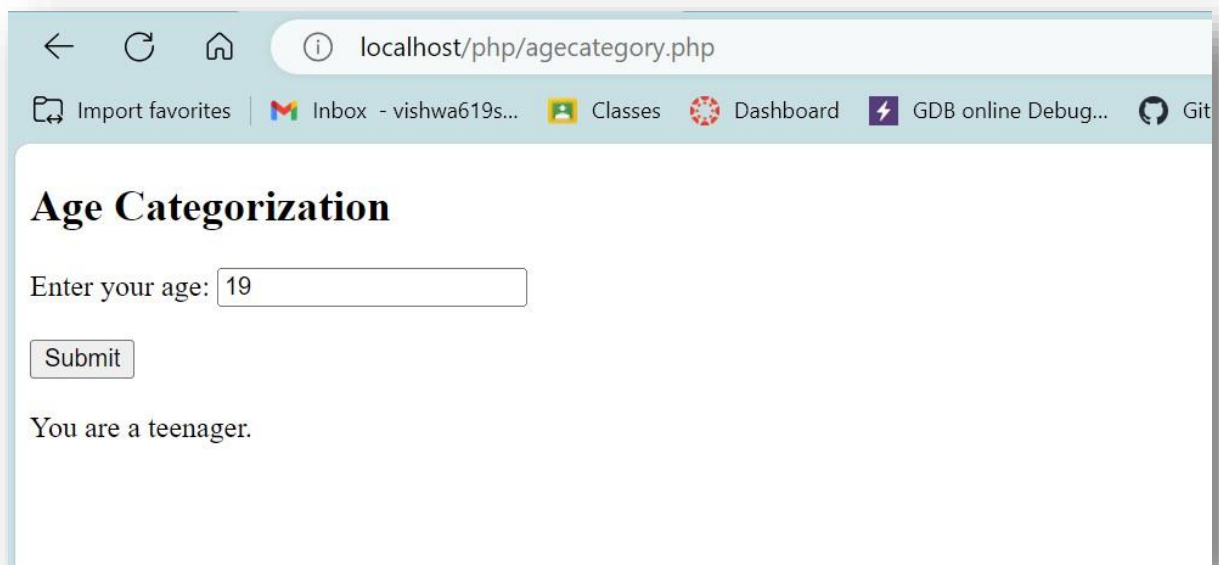   To work on the given questions and getting the output using PHP.

1. Develop a PHP script that takes a person's age as input and categorizes them into different age groups (e.g., child, teenager, adult, senior).

Program:

```php
<!DOCTYPE html>
<html>
<head>
  <title>GCD Calculator</title>
</head>
<body>
  <h2>GCD Calculator</h2>
  <form method="post">
    Enter the first number: <input type="text" name="num1" required><br><br>
        Enter the second number: <input type="text" name="num2" required><br><br>
    <input type="submit" value="Calculate GCD"><br><br>
  </form>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num1 = $_POST["num1"];
    $num2 = $_POST["num2"];
    function GCD($num1, $num2) {
      $num1 = abs($num1);
      $num2 = abs($num2);
      while ($num2) {
        $temp = $num2;
```

```
            $num2 = $num1 % $num2;

            $num1 = $temp;

        }

        return $num1;

    }

    $gcd = GCD($num1, $num2);

    echo "<p>The GCD of $num1 and $num2 is: $gcd</p>";

    }

    ?>

</body>

</html>
```
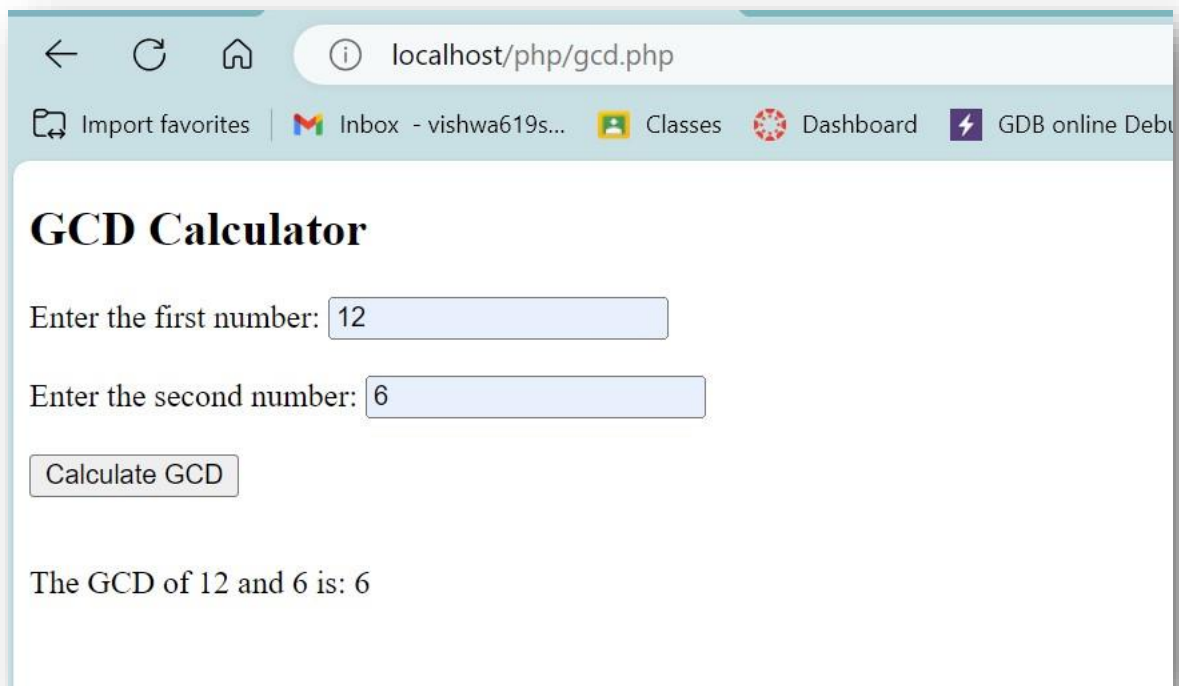
Output:

2. Write a PHP script to calculate the Greatest Common Divisor (GCD) of two numbers using loops.

Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>GCD Calculator</title>
</head>
<body>
  <h2>GCD Calculator</h2>
  <form method="post">
    Enter the first number: <input type="text" name="num1" required><br><br>
        Enter the second number: <input type="text" name="num2" required><br><br>
    <input type="submit" value="Calculate GCD"><br><br>
  </form>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num1 = $_POST["num1"];
    $num2 = $_POST["num2"];
    function GCD($num1, $num2) {
      $num1 = abs($num1);
      $num2 = abs($num2);
      while ($num2) {
        $temp = $num2;
        $num2 = $num1 % $num2;
        $num1 = $temp;
      }
      return $num1;
    }
      $gcd = GCD($num1, $num2);
```

```
            echo "<p>The GCD of $num1 and $num2 is: $gcd</p>";
        }
    ?>
</body>
</html>
```

Output:

3. **Develop a PHP class representing a ticket with properties like event name, venue, date, and price. Implement methods for booking and canceling tickets, as well as generating tickets for customers.**

Program:

```php
<?php
class Ticket{
    public $name;
    public $venue;
    public $date;
```

```php
    public $price;
    public $status;
    public function __construct($n,$v,$d,$p)
    {
        $this->name=$n;
        $this->venue=$v;
        $this->date=$d;
        $this->price=$p;
        $this->status=false;
    }
    public function eventName(){
        return $this->name;
    }
    public function eventVenue(){
        return $this->venue;
    }
    public function eventDate(){
        return $this->date;
    }
    public function eventPrice(){
        return $this->price;
    }
    public function generateTicket($username)
    {
        return "<div style='background-color: #f2f2f2; border: 1px solid #ccc; padding: 10px;
margin-bottom: 10px;'>
            <h2 style='color: #333;'>Ticket Details</h2>
            <p><strong>Name:</strong> Mr/Ms.{$username}</p>
            <p><strong>Event Name:</strong> {$this->name}</p>
            <p><strong>Venue:</strong> {$this->venue}</p>
            <p><strong>Event Date:</strong> {$this->date}</p>
            <p><strong>Price:</strong> {$this->price}</p>
```

```php
            </div>";
    }
    public function booked($uname){
        $this->status=true;
        if($this->status)
        {
            echo "You have successfully booked ticket for the event {$this->name}<br><br>";
            return $this->generateTicket($uname);
        }
    }
    public function canceled(){
        if($this->status)
        {
            return "Your ticket for {$this->name} has been cancelled";
        }
        $this->status=false;
    }
}
$ticket=new Ticket("CSK vs MI","Chepauk","14-04-2024",3000);
echo $ticket->booked("Rohith");
?>
```

Output:

Event Name: CSK vs MI
Venue: Chepauk
Event Date: 14-04-2024
Price: 3000

Code & Output (20)	
Quiz (5)	
Timely Submission (5)	
Total (30)	
Initial	

Result:

Thus, the Programming questions are executed using PHP and the output are verified successfully.