

Write a program to calculate Electricity bill in PHP using class

```
<!DOCTYPE html>

<head>
    <title>Electricity Bill Calculator</title>
</head>
<body>
    <center>
        <h3>Electricity Bill Calculator</h3>
        <form action="" method="post">
            <input type="number" name="units" placeholder="Please enter no. of Units" />
            <input type="submit" name="unit-submit" value="Submit" />
        </form>
    </center>
<?php
class electric
{
    public $units;

    function set_units($units)
    {
        $this->units=$units;
    }
    function calculate_bill()
    {
        $unit_cost_first = 4.50;
        $unit_cost_second = 5.00;
        $unit_cost_third = 6.60;
        $unit_cost_fourth = 8.00;

        if($this->units <= 50)
        {
            $bill = $this->units * $unit_cost_first;
        }
        else if($this->units > 50 && $this->units <= 100)
        {
            $temp = 50 * $unit_cost_first;
            $remaining_units = $this->units - 50;
            $bill = $temp + ($remaining_units * $unit_cost_second);
        }
        else if($this->units > 100 && $this->units <= 200)
        {
            $temp = (50 * 4.5) + (100 * $unit_cost_second);
            $remaining_units = $this->units - 150;
            $bill = $temp + ($remaining_units * $unit_cost_third);
        }
        else
```

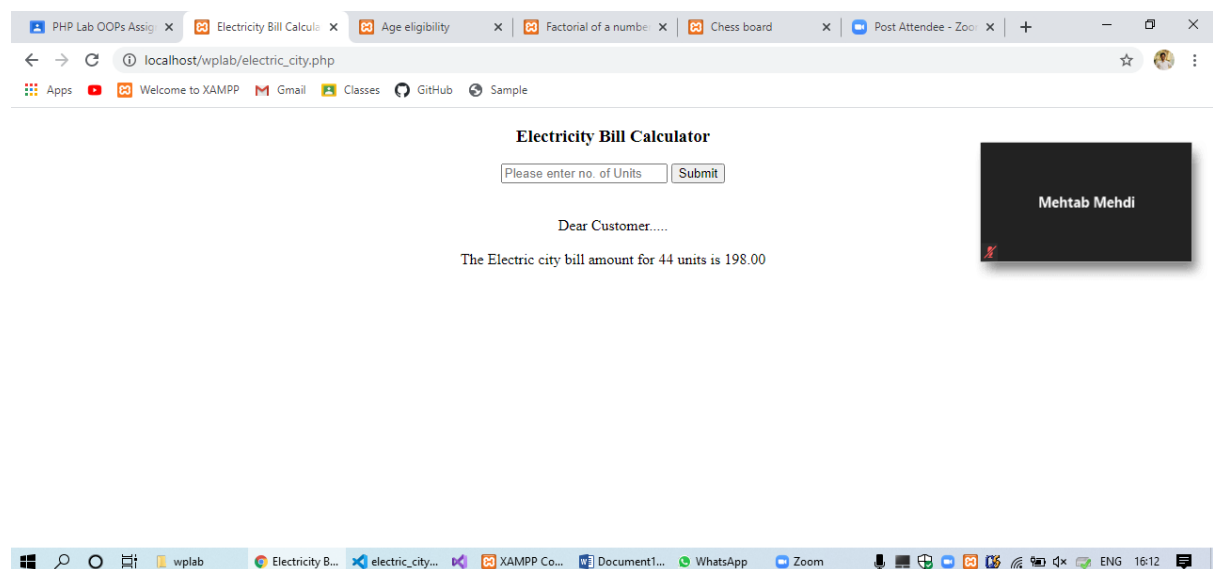
```

        {
            $temp = (50 * 4.5) + (100 * $unit_cost_second) + (100 * $unit_cost
            _third);
            $remaining_units = $this->units - 250;
            $bill = $temp + ($remaining_units * $unit_cost_fourth);
        }
        return number_format((float)$bill, 2, '.', '');
    }
}
$u=new electric();
if (isset($_POST['unit-submit']))
{
    $units = $_POST['units'];

    $u->set_units($units);

    echo "<br><br>Dear Customer.....<br><br>The Electric city bill amount for
    ".$units." units is ".$u->calculate_bill();
}
?>
</center>
</body>
</html>

```



Write a PHP program to check if a person is eligible to vote using class

```
<!DOCTYPE html>
```

```

<head>
    <title>Age eligibility</title>
</head>
<body>
    <center>
        <h3>Age eligibility for election checker</h3>
        <form action="" method="post">
            <input type="number" name="age" placeholder="Please enter age" />
            <input type="submit" name="submit" value="Submit" />
        </form>
<?php
class vote
{
    public $age;

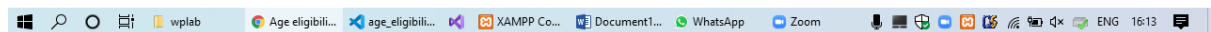
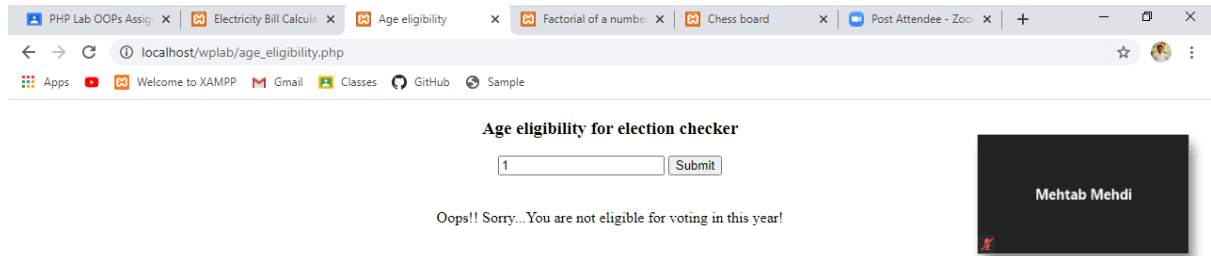
    function set_age($age)
    {
        $this->age=$age;
    }
    function check_eligibility()
    {
        if($this->age <= 18)
        {
            echo "<br><br>Oops!! Sorry...You are not eligible for voting in th
is year!";
        }
        else if($this->age>18 && $this->age <= 100)
        {
            echo "<br><br>Hey!! Great news!! You are eligible for vote!!";
        }
        else
        {
            echo "<br><br>Invalid age";
        }
    }
}
$checkeligible=new vote();
if (isset($_POST['submit']))
{
    $age = $_POST['age'];

    $checkeligible->set_age($age);

    $checkeligible->check_eligibility();
}

```

```
?>
</center>
</body>
</html>
```



find the factorial of a number using php oops

```
<!DOCTYPE html>

<head>
    <title>Factorial of a number</title>
</head>
<body>
    <center>
        <h3>Factorial of a number</h3>
        <form action="" method="post">
            <input type="number" name="num" placeholder="Please enter a number to calculate factorial of a number" />
            <input type="submit" name="submit" value="Submit" />
        </form>
    </center>
    <?php
    class factt
    {
        public $num;

        function set_fact($num)
        {
            $this->num=$num;
        }
    }
}
```

```

function factorialnum()
{
    $factorial = 1;
    for ($x=$this->num; $x>=1; $x--)
    {
        $factorial = $factorial * $x;
    }
    echo "<br><br>Factorial of $this->num is $factorial";
}
}
$checkfact=new factt();
if (isset($_POST['submit']))
{

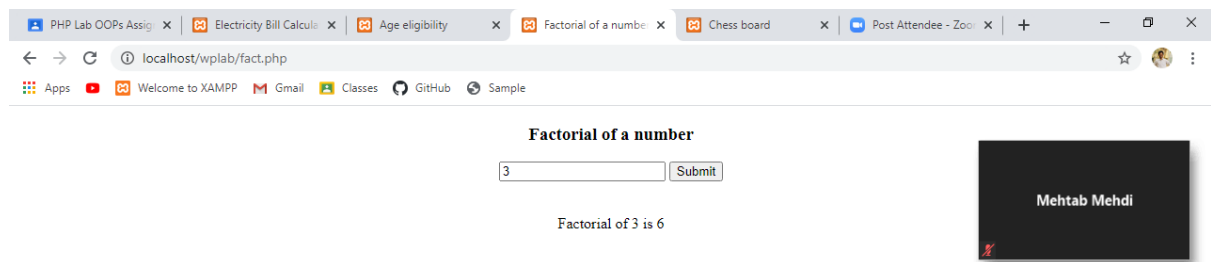
    $num = $_POST['num'];

    $checkfact->set_fact($num);

    $checkfact->factorialnum();

}
?>
</center>
</body>
</html>

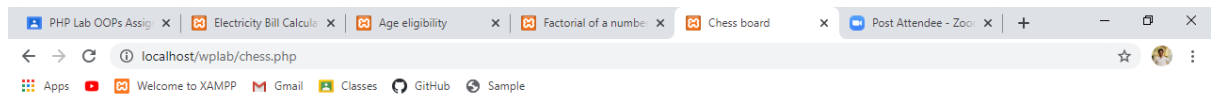
```



Write a PHP program using nested for loop that creates a chess board.
you can use html table

```
<!DOCTYPE html>
<html>
    <head>
    <title>Chess board</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    </head>
    <body>
    <h3>Chess Board</h3>
    <table width="450px" cellspacing="0px" cellpadding="0px" border="1px">
        <?php
        class chessboard
        {
            function __construct()
            {
                for($row=1;$row<=8;$row++)
                {
                    echo "<tr>";
                    for($col=1;$col<=8;$col++)
                    {
                        $total=$row+$col;
                        if($total%2==0)
                        {
                            echo "<td height=30px width=30px bgcolor=#FFFFFF></td>";
                        }
                        else
                        {
                            echo "<td height=30px width=30px bgcolor=#000000></td>";
                        }
                    }
                    echo "</tr>";
                }
            }
        }
        new chessboard();

    ?>
    </table>
    </body>
</html>
```



Chess Board

