## 122B2B302 Ritish Shelke

## Assignment no 5

```
class="parameter"><br>
                                                                   </div>
Findarea.php
                                                                   <div class="shape-parameters" id="square-params">
<!DOCTYPE html>
                                                                     Side: <input type="text" name="side"
<html lang="en">
                                                                 class="parameter"><br>
<head>
                                                                   </div>
  <meta charset="UTF-8">
                                                                   <div class="shape-parameters" id="circle-params">
  <meta name="viewport" content="width=device-
                                                                     Radius: <input type="text" name="radius"
width, initial-scale=1.0">
                                                                 class="parameter"><br>
  <title>Document</title>
                                                                   </div>
  <link rel="stylesheet" href="style.css">
                                                                   <button type="submit" class="btn" style="margin-top:
</head>
                                                                 10px; margin-bottom:20px;">Calculate</button>
<body>
                                                                   <?php
<form method="post" action="" class="form">
                                                                 class Shape {
<div class="first">
                                                                   protected $name;
<label class="particles-checkbox-container">
                                                                   public function __construct($name) {
 <input type="radio" class="particles-checkbox"
                                                                     $this->name = $name;
name="shape" value="triangle"
                                                                  }
onclick="showParameters('triangle')">
                                                                   public function getName() {
 <span>Triangle</span>
                                                                     return $this->name;
</label>
                                                                  }
<label class="particles-checkbox-container">
                                                                   public function calculateArea() {
 <input type="radio" class="particles-checkbox"
name="shape" value="square"
                                                                     // Base class method, to be overridden by
onclick="showParameters('square')">
                                                                 subclasses
 <span>Sqaure</span>
                                                                     return 0;
</label>
                                                                  }
<label class="particles-checkbox-container">
 <input type="radio" class="particles-checkbox"
                                                                 class Triangle extends Shape {
name="shape" value="circle"
onclick="showParameters('circle')">
                                                                   private $base;
 <span>Circle</span>
                                                                   private $height;
</label>
</div>
                                                                   public function __construct($base, $height) {
<div class="second">
                                                                     parent::__construct("Triangle");
                                                                     $this->base = $base;
<div class="shape-parameters" id="triangle-params">
```

\$this->height = \$height;

Base: <input type="text" name="base"

Height: <input type="text" name="height"

class="parameter"><br>

```
}
                                                                         case 'square':
  public function calculateArea() {
                                                                           $square = new Square($_POST['side']);
    return 0.5 * $this->base * $this->height;
                                                                           echo "Area of " . $square->getName() . ": " .
                                                                    $square->calculateArea();
  }
                                                                           break;
}
                                                                         case 'circle':
class Square extends Shape {
                                                                           $circle = new Circle($_POST['radius']);
  private $side;
                                                                           echo "Area of " . $circle->getName() . ": " . $circle-
  public function __construct($side) {
                                                                    >calculateArea();
    parent::__construct("Square");
                                                                           break;
    $this->side = $side;
                                                                         default:
  }
                                                                           echo "Please select a shape.";
  public function calculateArea() {
                                                                           break;
    return $this->side * $this->side;
                                                                      }
  }
}
                                                                    ?>
class Circle extends Shape {
                                                                    </div>
  private $radius;
                                                                    </form>
  public function __construct($radius) {
                                                                    </body>
    parent::__construct("Circle");
                                                                    <script>
    $this->radius = $radius;
                                                                      function showParameters(shape) {
  }
                                                                        // Hide all shape parameter divs
  public function calculateArea() {
                                                                         document.querySelectorAll('.shape-
                                                                    parameters').forEach(function (div) {
    return M_PI * $this->radius * $this->radius;
                                                                           div.style.display = 'none';
  }
                                                                        });
}
if (isset($_POST['shape'])) {
                                                                        // Show the selected shape parameter div
  $selectedShape = $_POST['shape'];
                                                                         document.getElementById(shape + '-
                                                                    params').style.display = 'block';
  switch ($selectedShape) {
                                                                      }
    case 'triangle':
                                                                    </script>
       $triangle = new Triangle($_POST[ 'base'],
                                                                    </html>
$_POST['height']);
       echo "Area of " . $triangle->getName() . ": " .
$triangle->calculateArea();
      break;
```

## Output:





