



The screenshot shows a web browser on the left displaying the output of a PHP script at localhost/PHP/Abstraccion.php. The output lists the area calculations for a square, a rectangle, and a triangle. On the right, the code editor shows the implementation of an abstract class Poligono in Abstraccion.php. The class defines an abstract method calculo(). Three concrete classes, Cuadrado, Rectangulo, and Triangulo, extend Poligono and implement the calculo() method with their respective area formulas. A function area() is also defined to instantiate a Poligono object and call its calculo() method.

```
area de un cuadrado : a = l*l  
area de un rectangulo : a = b*h  
area de un triangulo : a = (b*h)/2
```

```
1 <?php  
2  
3 abstract class Poligono  
4 {  
5     abstract function calculo();  
6 }  
7  
8 class Cuadrado extends Poligono  
9 {  
10     function calculo()  
11     {  
12         echo 'area de un cuadrado : a = l*l<br><br>';  
13     }  
14 }  
15  
16 class Rectangulo extends Poligono  
17 {  
18     function calculo()  
19     {  
20         echo 'area de un rectangulo : a = b*h<br><br>';  
21     }  
22 }  
23  
24 class Triangulo extends Poligono  
25 {  
26     function calculo()  
27     {  
28         echo 'area de un triangulo : a = (b*h)/2<br>';  
29     }  
30 }  
31  
32 function area(Poligono $obj)  
33 {  
34     $obj->calculo();
```

The screenshot shows a web browser on the left displaying the output of a PHP script at localhost/PHP/Interfaces.php. The output is identical to the first screenshot, showing area calculations for a square, a rectangle, and a triangle. On the right, the code editor shows the implementation of an interface Poligono in Interfaces.php. The interface defines the calculo() method. Three concrete classes, Cuadrado, Rectangulo, and Triangulo, implement Poligono and implement the calculo() method with their respective area formulas. A function area() is also defined to instantiate a Poligono object and call its calculo() method.

```
area de un cuadrado : a=l*l  
area de un rectangulo : a=b*h  
area de un triangulo : a=(b*h)/2
```

```
1 <?php  
2  
3 interface Poligono  
4 {  
5     function calculo();  
6 }  
7  
8 class Cuadrado implements Poligono  
9 {  
10     function calculo()  
11     {  
12         echo 'area de un cuadrado : a=l*l<br><br>';  
13     }  
14 }  
15  
16 class Rectangulo implements Poligono  
17 {  
18     function calculo()  
19     {  
20         echo 'area de un rectangulo : a=b*h<br><br>';  
21     }  
22 }  
23  
24 class Triangulo implements Poligono  
25 {  
26     function calculo()  
27     {  
28         echo 'area de un triangulo : a=(b*h)/2<br>';  
29     }  
30 }  
31  
32 function area(Poligono $obj)  
33 {  
34     $obj->calculo();
```

The screenshot shows a web browser on the left displaying the output of a PHP script at localhost/PHP/Interfaces.php. The output is identical to the previous screenshots, showing area calculations for a square, a rectangle, and a triangle. On the right, the code editor shows the implementation of an interface Poligono in Interfaces.php. The interface defines the calculo() method. Three concrete classes, Cuadrado, Rectangulo, and Triangulo, implement Poligono and implement the calculo() method with their respective area formulas. A function area() is also defined to instantiate a Poligono object and call its calculo() method.

```
area de un cuadrado : a=l*l  
area de un rectangulo : a=b*h  
area de un triangulo : a=(b*h)/2
```

```
1 <?php  
2  
3 interface Poligono  
4 {  
5     function calculo();  
6 }  
7  
8 class Cuadrado implements Poligono  
9 {  
10     function calculo()  
11     {  
12         echo 'area de un cuadrado : a=l*l<br><br>';  
13     }  
14 }  
15  
16 class Rectangulo implements Poligono  
17 {  
18     function calculo()  
19     {  
20         echo 'area de un rectangulo : a=b*h<br><br>';  
21     }  
22 }  
23  
24 class Triangulo implements Poligono  
25 {  
26     function calculo()  
27     {  
28         echo 'area de un triangulo : a=(b*h)/2<br>';  
29     }  
30 }  
31  
32 function area(Poligono $obj)  
33 {  
34     $obj->calculo();
```

