

# **EXTERNAL PRACTICAL**

## **WEB BASED PROGRAMMING**

**NAME: DIVYANSH JHA**

**CLASS: BCA-M2**

**ENROL NO: 07713702021**

Q1. Write a program in PHP to create a class Shape and create its two subclasses Rectangle and Triangle that contain function to find area. Create objects of classes Rectangle and Triangle and display area.

Code:

```
<?php
class Shape{
    public $dimension1;
    public $dimension2;
}
class Rectangle extends Shape{
    function __construct($d1, $d2){
        $this->dimension1 = $d1;
        $this->dimension2 = $d2;
    }
    function rect_area(){
```

```

        echo "Area of rectangle is:", $this-
>dimension1*$this->dimension2;
    }
}

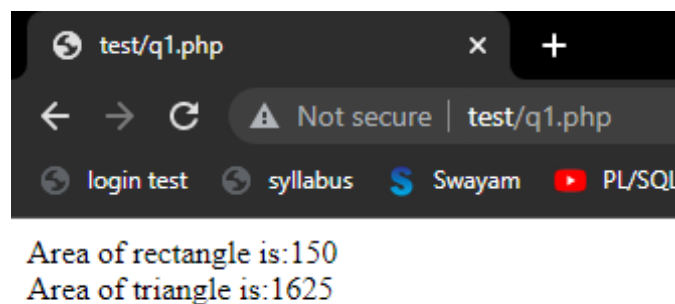
class Triangle extends Shape{
    function __construct($h, $b){
        $this->dimension1 = $h;
        $this->dimension2 = $b;
    }
    function tri_area(){
        echo "<br>Area of triangle is:", $this-
>dimension1*$this->dimension2;
    }
}

$rect = new Rectangle(10,15);
$rect->rect_area();
$tri = new Triangle(25,65);
$tri->tri_area();

?>

```

**Output:**



Q2. Write a program in PHP that contains two user-defined functions for swapping two numbers using (i) call-by-reference (ii) call-by-value. Call these functions by taking input from user.

Code:

```
<html>
<form action="q2.php" method="get">
Number 1: <input type="text" name="a"><br>
Number 2: <input type="text" name="b"><br>
<input type="submit">
</form>
<br> (i) BY CALL BY VALUE: <br>
<?php
function swap($x, $y) {
    $temp = $x;
    $x = $y;
    $y = $temp;
    echo "The value of x is: ".$x."<br>";
    echo "The value of y is: ".$y."<br><br>";
}

$a = $_GET["a"];
$b = $_GET["b"];
```

```

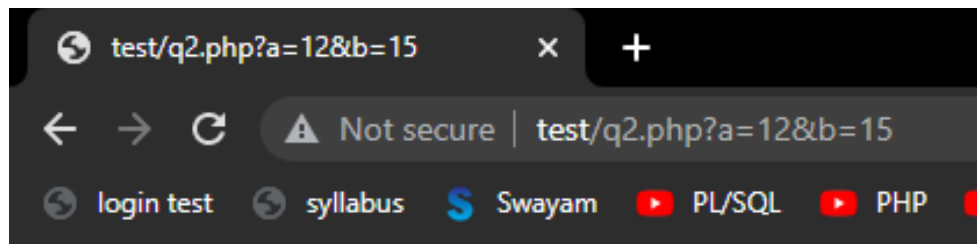
swap($a, $b);
echo "The value of a is :".$a."<br>";
echo "The value of b is :".$b."<br>";
?>

<br> (ii) BY CALL BY REFERENCE: <br>
<?php
function swapp(&$x, &$y) {
    $temp = $x;
    $x = $y;
    $y = $temp;
    echo "The value of x is : ".$x."<br>";
    echo "The value of y is : ".$y."<br><br>";
}

$c = 10;
$d = 20;
swapp($c, $d);
echo "The value of a is : ".$c."<br>";
echo "The value of b is : ".$d."<br>";
?>
</html>

```

**Output:**



Number 1:

Number 2:

(i) BY CALL BY VALUE:

The value of x is:15

The value of y is:12

The value of a is :12

The value of b is :15

(ii) BY CALL BY REFERENCE:

The value of x is: 20

The value of y is: 10

The value of a is: 20

The value of b is: 10