Lab Report No. 05



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Section: Section C

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work"

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Lab 5:

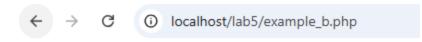
Example a:

Results:

```
← → ♂ ⊙ localhost/lab5/example_a.php

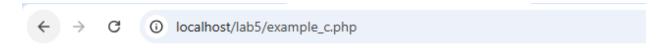
Ali Ahmad
1
Maqsood Maryam Adam Naila
```

Example b:



Example c:

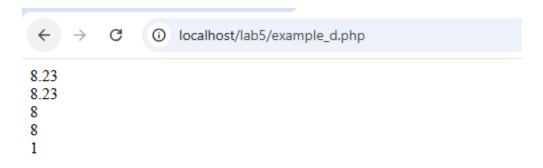
Results:



Warning: Undefined variable \$test_var in C:\xampp\htdocs\lab5\example_c.php on line 3 NULL integer double string

Example d:

Results:



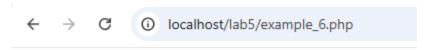
Example 5:



Page not recognized

Example 6:

Results:



Page not recognized.

Example 7:

Results:

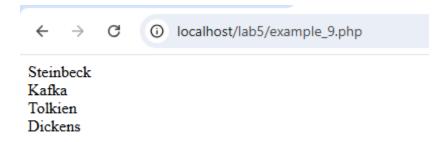


Fill tank now

Example 8:

```
Selling a widget... done. There are 9 widgets left. Selling a widget... done. There are 8 widgets left. Selling a widget... done. There are 7 widgets left. Selling a widget... done. There are 6 widgets left. Selling a widget... done. There are 5 widgets left. Selling a widget... done. There are 4 widgets left. Selling a widget... done. There are 3 widgets left. Selling a widget... done. There are 2 widgets left. Selling a widget... done. There are 1 widgets left. Selling a widget... done. There are 1 widgets left. Selling a widget... done. There are 0 widgets left. We're right out of widgets!
```

Example 9:



Example 10:

```
title
The Grapes of Wrath
author
John Steinbeck
pubYear
1939
```

Example 11:

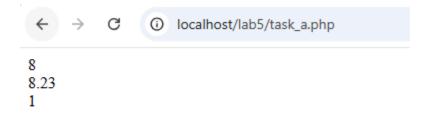
```
← → ♂ iocalhost/lab5/example_11.php
```

The smallest square over 1000 sq ft in area is 32 ft x 32 ft.

Example 12:

Task a:

Results:



Task b:

• intval(value)

Purpose:

Converts the given value to an **integer** and returns the result.

• floatval(value)

Purpose:

Converts the given value to a floating-point (decimal) number and returns it.

• strval(value)

Purpose:

Converts the given value to a string.

Task c:

```
for ($col = 1; $col <= $max; $col++) {
    $div = $row / $col;

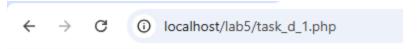
    // Determine odd or even for the numerator (row number)
    $oddEven = ($row % 2 == 0) ? "Even" : "Odd";

    // Check if prime
    $primeMsg = isPrime($row) ? "<br>
    // Cell content
    echo "";
    echo number_format($div, 2) . "<br>
    echo "<small>$oddEven $primeMsg</small>";
    echo "
    // Cell content
    echo "<small>$oddEven $primeMsg</small>";
    echo "
    // Cell content
    echo "
```

←	← → C ① localhost/lab5/task_c.php									
	1	2	3	4	5	6	7	8	9	10
1	1.00	0.50	0.33	0.25	0.20	0.17	0.14	0.13	0.11	0.10
	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd
2	2.00	1.00	0.67	0.50	0.40	0.33	0.29	0.25	0.22	0.20
	Even	Even	Even	Even	Even	Even	Even	Even	Even	Even
	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)
3	3.00	1.50	1.00	0.75	0.60	0.50	0.43	0.38	0.33	0.30
	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd
	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)
4	4.00	2.00	1.33	1.00	0.80	0.67	0.57	0.50	0.44	0.40
	Even	Even	Even	Even	Even	Even	Even	Even	Even	Even
5	5.00	2.50	1.67	1.25	1.00	0.83	0.71	0.63	0.56	0.50
	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd
	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)
6	6.00	3.00	2.00	1.50	1.20	1.00	0.86	0.75	0.67	0.60
	Even	Even	Even	Even	Even	Even	Even	Even	Even	Even
7	7.00	3.50	2.33	1.75	1.40	1.17	1.00	0.88	0.78	0.70
	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd
	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)	(Prime)
8	8.00	4.00	2.67	2.00	1.60	1.33	1.14	1.00	0.89	0.80
	Even	Even	Even	Even	Even	Even	Even	Even	Even	Even
9	9.00	4.50	3.00	2.25	1.80	1.50	1.29	1.13	1.00	0.90
	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd	Odd
10	10.00	5.00	3.33	2.50	2.00	1.67	1.43	1.25	1.11	1.00
	Even	Even	Even	Even	Even	Even	Even	Even	Even	Even

Task d:

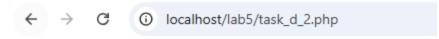
Classes and Objects



This vehicle is a Red Toyota. This vehicle is a Blue Honda.

> Inheritance

```
m task_d_2.php
      class Vehicle {
          public $brand;
          public $color;
          public function __construct($brand, $color) {
             $this->brand = $brand;
             $this->color = $color;
          public function displayInfo() {
              echo "This vehicle is a $this->color $this->brand.<br>";
      class Car extends Vehicle {
          public $doors;
          public function __construct($brand, $color, $doors) {
             parent::__construct($brand, $color);
              $this->doors = $doors;
18
          public function displayInfo() {
              echo "This car is a $this->color $this->brand with $this->doors doors.<br/>
      $myCar = new Car("BMW", "Black", 4);
      $myCar->displayInfo();
```



This car is a Black BMW with 4 doors.

Polymorphism

```
task_d_3.php
     interface Shape {
         public function area();}
         private $radius;
         public function __construct($radius) {
             $this->radius = $radius;
         public function area() {
             return pi() * $this->radius * $this->radius;
     class Rectangle implements Shape {
         private $width;
         private $height;
         public function __construct($width, $height) {
             $this->width = $width;
             $this->height = $height;
         public function area() {
             return $this->width * $this->height;
     $shapes = [
         new Rectangle(4, 6)
28
     foreach ($shapes as $shape) {
         echo "Area: " . $shape->area() . "<br>";
```



Area: 78.539816339745

Area: 24