

**TITLE : OOP with PHP -1**

**PRACTICAL -7**

## OOP with PHP -1

**Q-1. Create a HTML form which takes a bank account number, current balance, amount value for deposit or withdrawal operation. It is two button withdrawal and deposit. On click on button it performs a respective operation . Create a bank class having a property account number and amount and methods for deposit, withdrawal and for displaying the account number and current amount. On clicking on the withdrawal or deposit button it creates an object of the bank class and should call the respective method of a class. And display the account no and current available amount.**

**Code:**

### **index.html**

```
<!Doctype html>

<html>

    <head><title>Form</title>

    </head>

<body>

    <form action="p1.php" method="post">

        <label>Account Number:</label>

        <input type="number" name="accountno"><br><br>

        <label>Current Balance:</label>

        <input type="number" name="currentB"><br><br>

        <label>Amount Values:</label>

        <input type="number" name="amount"><br><br>

        <input type="submit" name="Deposit" value="Deposit">

        <input type="submit" name="Withdraw" value="Withdraw">

    </form>

</body>

</html>
```

### **P1.php**

```
<?php

$account_no=$_POST['accountno'];

$amount=$_POST['amount'];

$current_amt=$_POST['currentB'];

class bank{

    public $account_no;

    public $amount;

    public $current_amt;
```

```

public function __construct($account_no,$amount,$current_amt) {
    $this->account_no=$account_no;
    $this->amount=$amount;
    $this->current_amt=$current_amt;
}

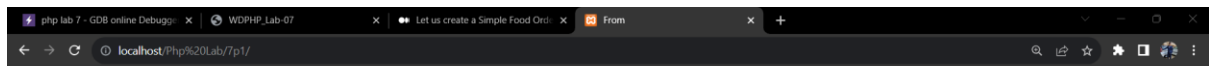
public function deposit()
{
    echo "Deposite: Account_number::". $this->account_no." " ."Amount:".
$this->amount." " ."cureent_balance:". $this->current_amt."<br><br>";
    echo $this->current_amt + $this->amount." "."<br>";
}

public function withdraw() {
    echo "withdraw: Account_number::". $this->account_no." " ."Amount".
$this->amount." " ."cureent_balance:". $this->current_amt."<br><br>";
    echo $this->current_amt - $this->amount." "."<br>";
}}

$bank=new bank($account_no,$amount,$current_amt);
$bank2=new bank($account_no,$amount,$current_amt);
if(isset($_POST["Deposit"]))
{
    $bank->deposit();
}
else{
    $bank->withdraw();
}
?>

```

**OUTPUT:**

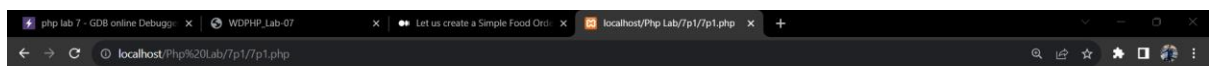


Account Number: 101

Current Balance: 10000

Amount Values: 2000

Deposit Withdraw



Deposite: Account\_number::101 Amount:2000 curent\_balance:10000

12000



**Q-2) Create a class Food. Having a property name, category and price. Create a constructor which assigns the values to the properties. Class should have a method order () which takes the quantity and calculates the total price. Display () will display all food details as well as total price of a food item. getTotalPrice () return the total price of each food item (price\*qty) (\*qty and total price are not class variables). Give all necessary input by the HTML form. And display output in HTML form. Take the necessary input of three food items from HTML form. [ 3 objects of a class should be created]. Create a Php function which calculates the final sum of all the object's total price and display.**

**Code:**

**index.html**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <title>Food order</title>

</head>

<body>

    <form name="form1" action="7p2.php" method="post">

        <table width="80%">

            <tr>

                <th>Food Item</th>

                <th>Name</th>

                <th>Category</th>

                <th>Quantity</th>

                <th>Price</th>

            </tr>

            <tr>

                <td>Item 1:</td>

                <td><input type="text" name="name1"></td>

                <td><select name="category1">

                    <option value="">--Select Item--</option>

                    <option value="Vegetable">Vegetable</option>

                    <option value="Fruits">Fruits</option>

                </select></td>

                <td><input type="number" name="quantity1" value="0"></td>

                <td><input type="text" name="price1"></td> </tr>
```

```

        <td>Item 2:</td>
        <td><input type="text" name="name2"></td>
        <td><select name="category2">
                <option value="">--Select Item--</option>
                <option value="Vegetable">Vegetable</option>
                <option value="Fruits">Fruits</option>
        </select></td>
        <td><input type="number" name="quantity2" value="0"></td>
        <td><input type="text" name="price2"></td>
    </tr>
    <td>Item 3:</td>
    <td><input type="text" name="name3"></td>
    <td><select name="category3">
            <option value="">--Select Item--</option>
            <option value="Vegetable">Vegetable</option>
            <option value="Fruits">Fruits</option>
    </select></td>
    <td><input type="number" name="quantity3" value="0"></td>
    <td><input type="text" name="price3"></td>
</tr>
<tr>
    <td></td>
    <td></td>
    <td><input type="submit" class="button" value="Create
Bill"></td>
    <td><input type="reset" class="button" value="Clear"></td>
</tr>
</table>
</form>
</body>
</html>

```

### Data.php

```

<?php

$name1 = $_POST["name1"];

$price1 = $_POST["price1"];

```

```

$quantity1 = $_POST["quantity1"];
$name2 = $_POST["name2"];
$price2 = $_POST["price2"];
$quantity2 = $_POST["quantity2"];
$name3 = $_POST["name3"];
$price3 = $_POST["price3"];
$quantity3 = $_POST["quantity3"];
class Food {
    public $name;
    public $price;
    public $quantity;
    public function __construct($name, $price, $quantity) {
        $this->name = $name;
        $this->price = $price;
        $this->quantity = $quantity;
    }
    public function getTotalPrice($quantity) {
        return $this->price * $quantity;
    }
    public function order($quantity) {
        return $this->getTotalPrice($quantity);
    }
    public function displayOrder($quantity) {
        echo "Name: " . $this->name . "<br>";
        echo "Price: " . $this->price . "<br>";
        echo "Quantity: " . $quantity . "<br>";
        echo "Total Price: " . $this->order($quantity) . "<br>";
    }
}

function calculateFinalSum($food1, $food2, $food3, $quantity1, $quantity2,
$quantity3) {
    return ($food1->getTotalPrice($quantity1) +
        $food2->getTotalPrice($quantity2) +
        $food3->getTotalPrice($quantity3));
}

```

```

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $food1 = new Food($name1, $price1, $quantity1);
    $food2 = new Food($name2, $price2, $quantity2);
    $food3 = new Food($name3, $price3, $quantity3);

    $finalSum = calculateFinalSum($food1, $food2, $food3, $quantity1,
    $quantity2, $quantity3);

    echo "<h1>Order Summary</h1>";

    echo "<h2>Food 1</h2>";

    $food1->displayOrder($quantity1);

    echo "<h2>Food 2</h2>";

    $food2->displayOrder($quantity2);

    echo "<h2>Food 3</h2>";

    $food3->displayOrder($quantity3);

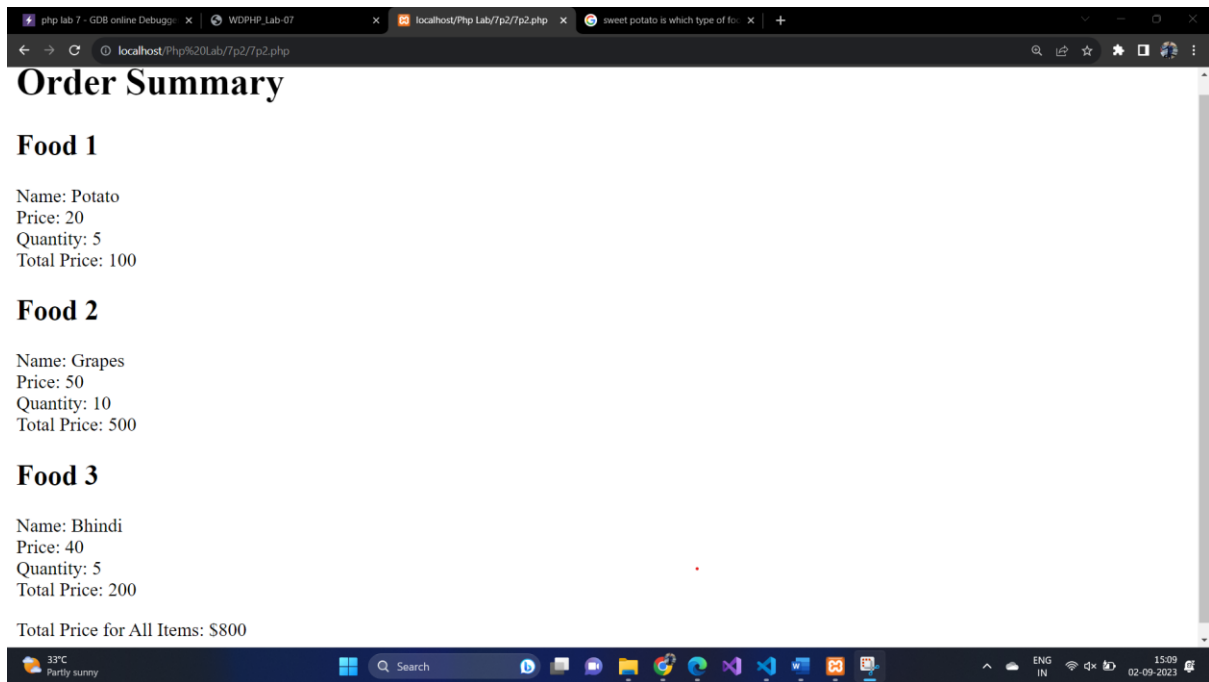
    echo "<p>Total Price for All Items: $" . $finalSum . "</p>";
}
?>

```

## OUTPUT

Food Item	Name	Category	Quantity	Price
Item 1:	Potato	Vegetable	5	20
Item 2:	Grapes	Fruits	10	50
Item 3:	Bhindi	Vegetable	5	40





**Q-3) Create a class course having properties course name, noofyear. Create setter and getter public methods for each property. Create a student class which inherits the course class. Student class should have name, pass out year, result class properties. Student class contain public method set value () which set all the property's value. And display () which display all the values. Create four different objects of student class and display details of each object.**

**Code:**

**index.html**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

<form action="7p3.php" method="post">

    <label for="name">Name:</label>

    <input type="text" id="name" name="name"><br><br>
```

```

<label for="passoutyear">Passout Year:</label>
<input type="text" id="passoutyear" name="passoutyear"><br><br>
<label for="resultclass">Result Class:</label>
<input type="text" id="resultclass" name="resultclass"><br><br>
<label for="coursename">Course Name:</label>
<input type="text" id="coursename" name="coursename"><br><br>
<label for="noofyear">No. of Year:</label>
<input type="text" id="noofyear" name="noofyear"><br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>

```

### **Data.php**

```
<?php
```

```

class Course {
    protected $coursename;
    protected $noofyear;
    public function setCourseName($coursename) {
        $this->coursename = $coursename;
    }
    public function getCourseName() {
        return $this->coursename;
    }
    public function setNoOfYear($noofyear) {
        $this->noofyear = $noofyear;
    }
    public function getNoOfYear() {
        return $this->noofyear;
    }
}

class Student extends Course {

```

```

protected $name;

protected $passoutyear;

protected $resultclass;

public function setValue($name, $passoutyear, $resultclass) {

    $this->name = $name;

    $this->passoutyear = $passoutyear;

    $this->resultclass = $resultclass;

}

public function display () {

    echo "Name: " . $this->name. "<br>";

    echo "Passout Year: " . $this->passoutyear . "<br>";

    echo "Result Class: " . $this->resultclass . "<br>";

    echo "Course Name: " . $this->getCourseName() . "<br>";

    echo "No. of Year: " . $this->getNoOfYear() . "<br><br>";

}

$obj1 = new Student();

$obj1->setCourseName("B.Tech");

$obj1->setNoOfYear(4);

$obj1->setValue("Jay", 2020, "First");

$obj1->display();

$obj2 = new Student();

$obj2->setCourseName("M.Tech");

$obj2->setNoOfYear(2);

$obj2->setValue("Karan", 2021, "Second");

$obj2->display();

$obj3 = new Student();

$obj3->setCourseName("B.Sc");

$obj3->setNoOfYear(3);

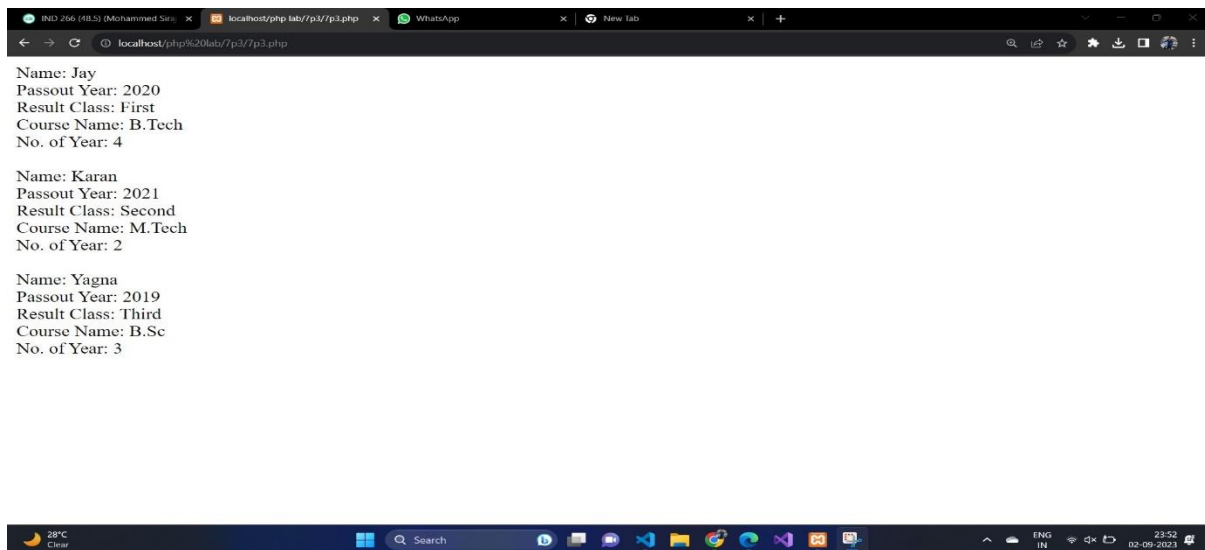
$obj3->setValue("Yagna", 2019, "Third");

$obj3->display();

?>

```

## OUTPUT



**Q-4) Create a class vehicle having properties prodyear,company name and a protected method for setting and getting values. Create subclass TwoWheeler inherits from vehicle. Properties are nameofvehicle, color. It contains methods setvalues() and getvalues() which set the values of all properties and display it respectively. Create a subclass FourWheeler inherits from vehicle class. Properties are vehiclename, color, price, tolltaxrate . It contains constructor which set all the properties. Display() method for displaying the details. Create an object of TwoWheeler and FourWheeler and display all the details for both the objects.**

**index.html**

`<?php`

```
class Vehicle {  
    protected $prodyear;  
    protected $companyname;  
    protected function setProdYear($prodyear) {  
        $this->prodyear = $prodyear;  
    }  
    protected function getProdYear() {  
        return $this->prodyear;  
    }  
    protected function setCompanyName($companyname) {  
        $this->companyname = $companyname;  
    }  
}
```

```

        protected function getCompanyName() {
            return $this->companyname;
        }
    }

class TwoWheeler extends Vehicle {
    protected $nameofvehicle;
    protected $color;
    public function setValues($prodyear, $companyname, $nameofvehicle, $color) {
        $this->setProdYear($prodyear);
        $this->setCompanyName($companyname);
        $this->nameofvehicle = $nameofvehicle;
        $this->color = $color;
    }
    public function getValues() {
        echo "Production Year: " . $this->getProdYear() . "<br>";
        echo "Company Name: " . $this->getCompanyName() . "<br>";
        echo "Name of Vehicle: " . $this->nameofvehicle . "<br>";
        echo "Color: " . $this->color . "<br><br>";
    }
}

class FourWheeler extends Vehicle {
    protected $vehiclename;
    protected $color;
    protected $price;
    protected $tolltaxrate;
    public function __construct($prodyear, $companyname, $vehiclename, $color, $price, $tolltaxrate)
    {
        $this->setProdYear($prodyear);
        $this->setCompanyName($companyname);
        $this->vehiclename = $vehiclename;
        $this->color = $color;
    }
}

```

```

        $this->price = $price;

        $this->tolltaxrate = $tolltaxrate;
    }

    public function display() {

        echo "Production Year: " . $this->getProdYear() . "<br>";
        echo "Company Name: " . $this->getCompanyName() . "<br>";
        echo "Vehicle Name: " . $this->vehiclename . "<br>";
        echo "Color: " . $this->color . "<br>";
        echo "Price: " . $this->price . "<br>";
        echo "Toll Tax Rate: " . $this->tolltaxrate . "<br><br>";

    }

}

$obj1 = new TwoWheeler();
$obj1->setValues(2020, "Honda", "Activa", "Black");
$obj1->getValues();

$obj2 = new FourWheeler(2020, "Honda", "City", "White", 1000000, 100);
$obj2->display();

?>

```

