Advance PHP

ASSIGNMENT 1

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ASSIGNMENT 1

SET-A

Q.1 Write class declarations and member function definitions for an employee(code, name, designation). Derive emp_account(account_no, joining_date) from employee and emp_sal(basic_pay, earnings, deduction) from emp_account. Write a menu driven program
a) To build a master table
b) To sort all entries
c) To search an entry
d) Display salary

Ans :

HTML Code:

```
<html>
  <fieldset>
        <legend><u><h2> Select Option :</h2></u></legend>
        <form action="Que.1.php" method="POST">
          <input type="radio" name="r1" value="1"> Display Master Table<br>
          <input type="radio" name="r1" value="2"> Sorting All Entries <br>
          <input type="radio" name="r1" value="3"> Search By Name :</label>
          <input type="text" name="nm"><br>
          <input type="radio" name="r1" value="4"> Display Total Salary <br><br>
          <input type="submit" value="submit" name="submit">
        </fieldset>
        </form>
</html>
```

PHP Code:

```
<?php
  class employee{
    public $code,$name,$des;
    function __construct($a,$b,$c){
      $this->code=$a;
      $this->name=$b;
      $this->des=$c;
    }
    public function disemp(){
      echo "<td>". $this->code ."</td><td>".$this->name."</td><td>".$this->des."</td>";
    }
    public function getname(){
      return $this->name;
    }
                public function display_name(){
                        echo $this->name;
                }
  }
  class emp_acc extends employee{
    public $ano, $jdate;
    function __construct($a,$b,$c,$d,$e){
      parent::__construct($a,$b,$c);
      $this->ano=$d;
```

```
        $this->jdate=$e;
      }
      public function disacc(){
        echo "<td>". $this->ano ."</td><td>".$this->jdate."</td>";
      }
   }
   class emp_sal extends emp_acc{
      public $bs, $earn, $ded, $total;
      function __construct($a,$b,$c,$d,$e,$f,$g,$h){
        parent::__construct($a,$b,$c,$d,$e);
        $this->bs=$f;
        $this->earn=$g;
        $this->ded=$h;
        $this->total = $this->bs+$this->earn-$this->ded;
      }
      public function dissal(){
        echo "<td>".$this->bs ."</td><td>".$this->earn."</td><td>".$this->ded."</td><td>".$this-
>total."</td>";
      }
   }
$e1[0]=new emp_sal(1,"akash","hod",10001,"02/02/2009",30000,1000,200);
$e1[1]=new emp_sal(2,"suresh","hod",10002,"12/10/2012",29000,3500,400);
$e1[2]=new emp_sal(3,"ramesh","hod",10003,"18/11/2013",24000,2500,250);
$e1[3]=new emp_sal(4,"swara","hod",10004,"19/05/2015",21000,3000,650);
$e1[4]=new emp_sal(5,"priya","hod",10005,"26/07/2017",27000,4000,750);

$ch=$_POST['r1'];
$nm=$_POST['nm'];
$flag=0;

function mastertable($e1){
   echo "<table border='1'>
   <tr><th>emp code</th>
   <th>emp name</th><th>designation</th>
   <th>account no</th><th>joining date</th>
   <th>basic pay</th><th>earning</th>
   <th>deduction</th><th>total salary</th></tr>";
   for($i=0; $i<5; $i++){
      echo "<tr>";
      $e1[$i]->disemp();
      $e1[$i]->disacc();
      $e1[$i]->dissal();
      echo "</tr>";
   }
   echo"</table>";
}
switch($ch){
   case 1 : mastertable($e1);
   break;
   case 2 : echo "sorted details <br>";
        function srt($a,$b){
```

```
            return strcmp($a->code,$b->code);
        }
        mastertable($e1);
        usort($e1,"srt");
        break;
    case 3 :
        for($i=0;$i<5; $i++){
            $t=$e1[$i]->getname();
            if($t==$nm){
                $flag=1;
                break;
            }
        }
        if($flag==0){
            echo"<script>alert('Entry Not Found..!'); window.location='goal.html'</script>";
        }
                                if($flag==1){
            echo"<script>alert('Entry Found..!'); window.location='goal.html'</script>";
        }
        break;
    case 4 : echo "<h2><u>Employee Salary :</h2><u>";
            echo "<table border='1'>
                <tr>
                    <th>Employee name</th>
                    <th>Basic pay</th>
                    <th>Earning</th>
                    <th>Deduction</th>
                    <th>Total salary</th>
                </tr>";
            for($i=0; $i<5; $i++){
                echo "<tr><td>";
                $e1[$i]->display_name();
                echo "</td>";

                $e1[$i]->dissal();

            }
        echo "</tr></table>";
       break;
    }
?>
```

Output :

ASSIGNMENT 1

SET-A

Q.2 Define an interface which has methods area( ), volume( ). Define constant PI. Create a class cylinder which implements this interface and calculate area and volume. (Hint: Use define( ))

Ans :

```
<?php
define('PI','3.14159265');
interface i{
function area($radius,$height);
function volume($radius,$height);
}
class cylinder{
function cyl_area($radius,$height){
$area=2*PI*$radius*$height;
echo"<h3>area of a cylinder is :".$area;
}
function cyl_volume($radius,$height){
$volume=PI*$radius*$radius*$height;
echo"<br>Volume of a cylinder is :".$volume;
}
}

$object=new cylinder;
$object->cyl_area("10","7");
$object->cyl_volume("10","7");
?>
```

Output :

area of a cylinder is :439.822971
Volume of a cylinder is :2199.114855

ASSIGNMENT 1

SET-A

Q.3 Write a Calculator class that can accept two values, then add them, subtract them, multiply them together, or divide them on request.

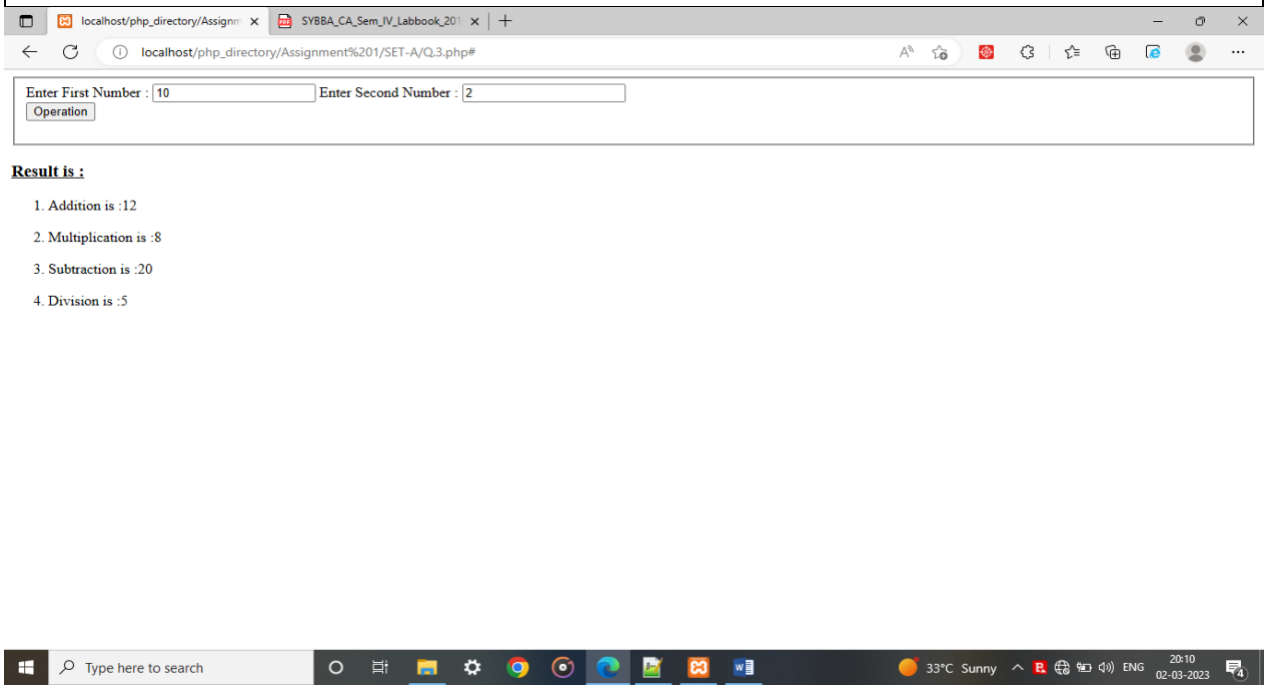
Ans:

PHP Code:

```
<html>
<fieldset>
<form action="#" method="POST">
<label>Enter First Number :</label>
<input type="text" name="t1" placeholder="e.g 10">
<label>Enter Second Number :</label>
<input type="text" name="t2" placeholder="e.g 2"><br>
<input type="submit" name="submit" value="Operation"/>
</fieldset>
</form>
</html>

<?php
if(isset($_POST['submit'])){
echo"<h3><u>Result is :</h3></u>";
interface calc{
        function add();
        function substract();
        function multiply();
        function divide();
}
class calculator{
public $x;
public $y;
public $result;
function __construct($a,$b){
$this->x=$a;
$this->y=$b;
}
function add(){
        $this->result=$this->x+$this->y;
echo"<ol><li>Addition is :".$this->result."</li>";
}
function substract(){
        $this->result=$this->x-$this->y;
echo"<br><li>Multiplication is :".$this->result."</li>";
}
function multiply(){
        $this->result=$this->x*$this->y;
echo"<br><li>Subtraction is :".$this->result."</li>";
}
function divide(){
        $this->result=$this->x/$this->y;
echo"<br><li>Division is :".$this->result."</li></ol>";
```

```
}
}
$object=new calculator($_POST['t1'],$_POST['t2']);
$object->add();
$object->substract();
$object->multiply();
$object->divide();
}
?>
```

Output :



ASSIGNMENT 1

SET-B

Q.1 Create a class named DISTANCE with feet and inches as data members. The class has the following member functions: convert_feet_to_inch() , convert_inch_to_feet() . Display options using radio button and display conversion on next page.

Ans :

HTML Code:

```
<html>
<fieldset>
<form action="target.php" method="GET">
<p><h2><u>Choose Option </u>:</h2></p>
<input type="radio" name="radio" value="1"/>Convert Feet to Inches<br>
<input type="radio" name="radio" value="2"/>Convert Inches To Feet<br>
 <br>
<input type="submit"/>
</fieldset>
</form>
</html>
```

PHP Code:

```
<?php
class DISTANCE{
public $feet, $inch, $result;
function __construct($a,$b){
$this->feet=$a;
$this->inch=$b;
}


function convert_feet_to_inch($a){
echo"<b>Input : </b>Feets are :</b>".$this->feet;
$this->result=$this->feet*12;
echo"<br><b><u>Result :</b></u>";
echo"<br>After conversion of feet to inch :".$this->result;
}


function convert_inch_to_feet($b){
echo"<b>Input : </b>Inches are :</b>".$this->inch;
echo"<br><b><u>Result :</b></u>";
$this->result=$this->inch/12;
echo"<br>After conversion of inch to feet :".$this->result;
}
}




$obj=new DISTANCE(10,10);
$choice=$_GET['radio'];
switch($choice){
```

```
        case 1: $obj->convert_feet_to_inch(10);
        break;
        case 2: $obj->convert_inch_to_feet(10);
        break;
        default: echo"Invalid choice";
}
?>
```

Output :

OUTPUT 1

OUTPUT 2

ASSIGNMENT 1

SET-B

Q.2 Write a PHP program to create a class Employee that contains data members as Emp_Name, Dept_name , Basic_sal,DA, HRA,TA , IT,PF,PT , GROSS, DEDUCTION ,NET . It hasmember functions calculate_gross , calculate_deductions , Calculate_net_salary . Display pay slip of employee. Create and Initialize members Emp_Name, Dept_name , Basic_sal of Employee object by using parameterized constructor.

Ans :

HTML Code:

```
<html>
<fieldset>
<legend>Form</legend>
<form action="destination.php" method="POST">
<label>Employee Name :</label>
<input type="text" name="t1" /><br>
<label>Department Name :</label>
<input type="text" name="t2" /><br>
<label>Basic Salary :</label>
<input type="text" name="t3" /><br>
<label>Enter DA :</label>
<input type="text" name="t4" /><br>
<label>Enter HRA :</label>
<input type="text" name="t5" /><br>
<label>Enter TA :</label>
<input type="text" name="t6" /><br>
<label>Enter IT :</label>
<input type="text" name="t7" /><br>
<label>Enter PF :</label>
<input type="text" name="t8" /><br>
<label>Enter PT :</label>
<input type="text" name="t9" /><br><br>
<input type="submit" name="submit" value="submit">
</fieldset>
</form>
</html>
```

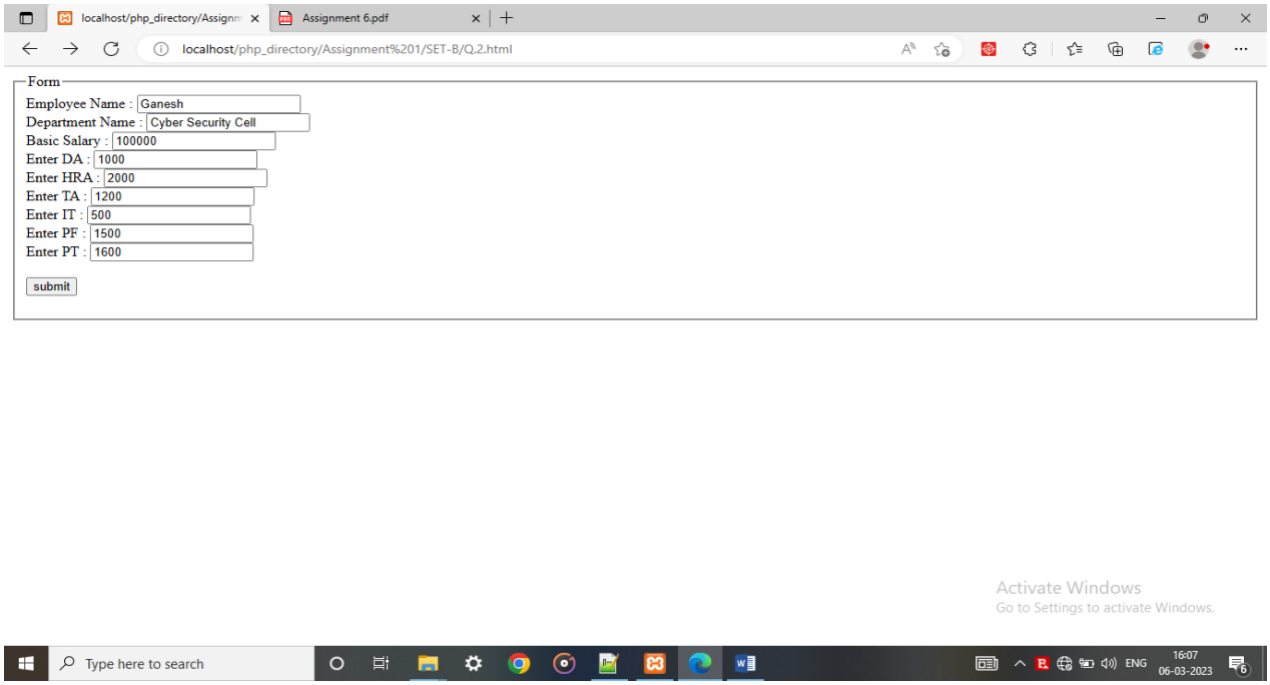
PHP Code:

```
<?php
class Employee{
public $Emp_name, $Dept_name, $Basic_sal, $DA, $HRA, $TA, $IT, $PF, $PT, $GROSS,
$DEDUCTION, $NET;
function __construct($a,$b,$c,$d,$e,$f,$g,$h,$i){
$this->Emp_name=$a;
$this->Dept_name=$b;
$this->Basic_sal=$c;
$this->DA=$d;
$this->HRA=$e;
$this->TA=$f;
$this->IT=$g;
$this->PF=$h;
$this->PT=$i;
}
```

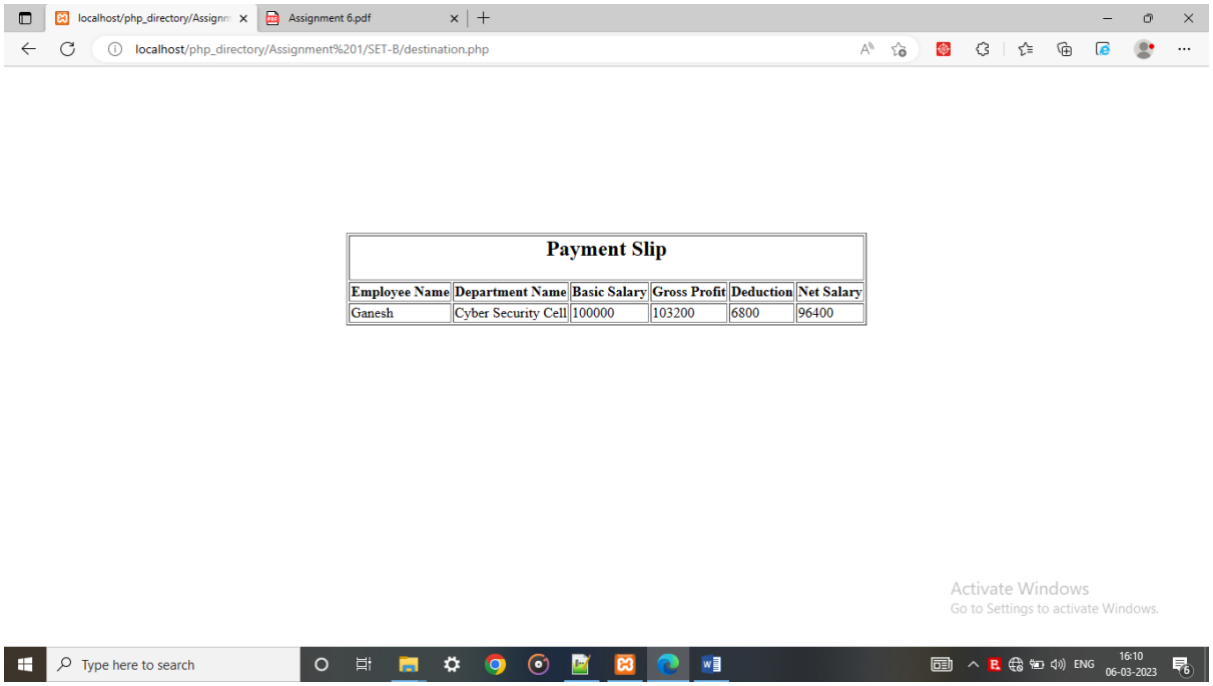
```
function name(){
        echo "<tr><td>".$this->Emp_name."</td>";
}
function department(){
        echo "<td>".$this->Dept_name."</td>";
}
function Salary(){
        echo "<td>".$this->Basic_sal."</td>";
}
function calculate_gross(){
$this->GROSS=$this->Basic_sal+$this->HRA+$this->DA=$this->TA;
echo "<td>".$this->GROSS."</td>";
}
function calculate_deduction(){
$this->DEDUCTION=$this->DA+$this->HRA+$this->TA=$this->PT+$this->IT+$this->PF;
echo "<td>".$this->DEDUCTION."</td>";
}
function Calculate_net_sal(){
$this->NET=$this->GROSS-$this->DEDUCTION;
echo "<td>".$this->NET."</td></tr></table>";
}
}

$obj=new
Employee($_POST['t1'],$_POST['t2'],$_POST['t3'],$_POST['t4'],$_POST['t5'],$_POST['t6'],$_POS
T['t7'],$_POST['t8'],$_POST['t9']);
echo"<br><br><br><br><br><br><br><br><br><br>";
echo"<center><table border='1'><tr><th colspan='6'><h2>Payment
Slip</h2></th></tr><tr><th>Employee Name</th>
<th>Department Name</th>
<th>Basic Salary</th>
<th>Gross Profit</th>
<th>Deduction</th>
<th>Net Salary</th></tr>";
echo $obj->name();
echo $obj->department();
echo $obj->Salary();
echo $obj->calculate_gross();
echo $obj->calculate_deduction();
echo $obj->Calculate_net_sal();
?>
```

Output :

OUTPUT 1



OUTPUT 2



ASSIGNMENT 1

SET-B

Q.3 Write a PHP program to create a class temperature which contains data members as Celsius and Fahrenheit . Create and Initialize all values of temperature object by using parameterized constructor . Convert Celsiusto Fahrenheit and Convert Fahrenheit to Celsius using member functions. Display conversion on next page.

Ans :

HTML Code:

```
<html>
<fieldset>
<form action="aim.php" method="GET">
<p><h2><u>Choose Option </u>:</h2></p>
<input type="radio" name="radio" value="1"/>Convert Celcius to Farenheit<br>
<input type="radio" name="radio" value="2"/>Convert Farenheit to Celcius<br>
 <br>
<input type="submit"/>
</fieldset>
</form>
</html>
```

PHP Code:

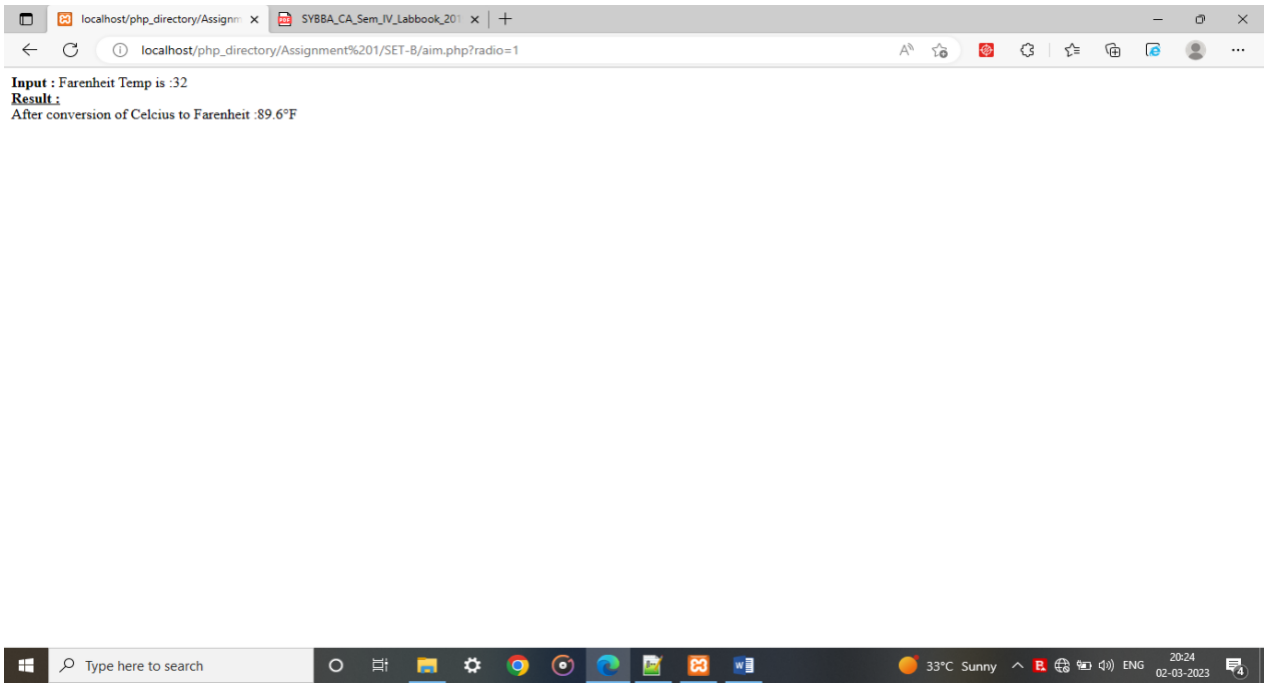
```
<?php
class temprature{
public $celcius, $farenheit, $result;
function __construct($c,$f){
$this->celcius=$c;
$this->farenheit=$f;
}


function convert_celcius_to_farenheit($c){
echo"<b>Input : </b>Farenheit Temp is :</b>".$this->celcius;
$this->result=($this->celcius*9/5)+32;
echo"<br><b><u>Result :</b></u>";
echo"<br>After conversion of Celcius to Farenheit :".$this->result."°F";
}


function convert_farenheit_to_celcius($f){
echo"<b>Input : </b>Celcius Temp is :</b>".$this->farenheit;
echo"<br><b><u>Result :</b></u>";
$this->result=($this->farenheit-32)*5/9;
echo"<br>After conversion of inch to feet :".$this->result."°C";
}
}
```

```
$obj=new temprature(32,37);
$choice=$_GET['radio'];
switch($choice){
        case 1: $obj->convert_celcius_to_farenheit(32);
        break;
        case 2: $obj->convert_farenheit_to_celcius(37);
        break;
        default: echo"Invalid choice";
}
?>
```

Output :

OUTPUT 1

OUTPUT 2



ASSIGNMENT 1

SET-C

Q.1 Write a PHP program to create a class article having articleid, name, articleqty, price. Write menu driven program to perform following functions :(Use array of objects)
i) Display details of all articles purchased.
ii) Display details of articles whose price exceeds 500
iii) Display details of articles whose quantity exceeds 50

Ans:

HTML Code:

```
<html>
<fieldset>
<form action="aim.php" method="POST">
<p><h2><u>Choose Option </u>:</h2></p>
<input type="radio" name="radio" value="1"/>dislay details<br>
<input type="radio" name="radio" value="2"/>Exceeded 500 limit of Article Price<br>
<input type="radio" name="radio" value="3"/>Exceeded 50 limit of Article Quantity<br>
 <br>
<input type="submit"/>
</fieldset>
</form>
</html>
```

PHP Code:

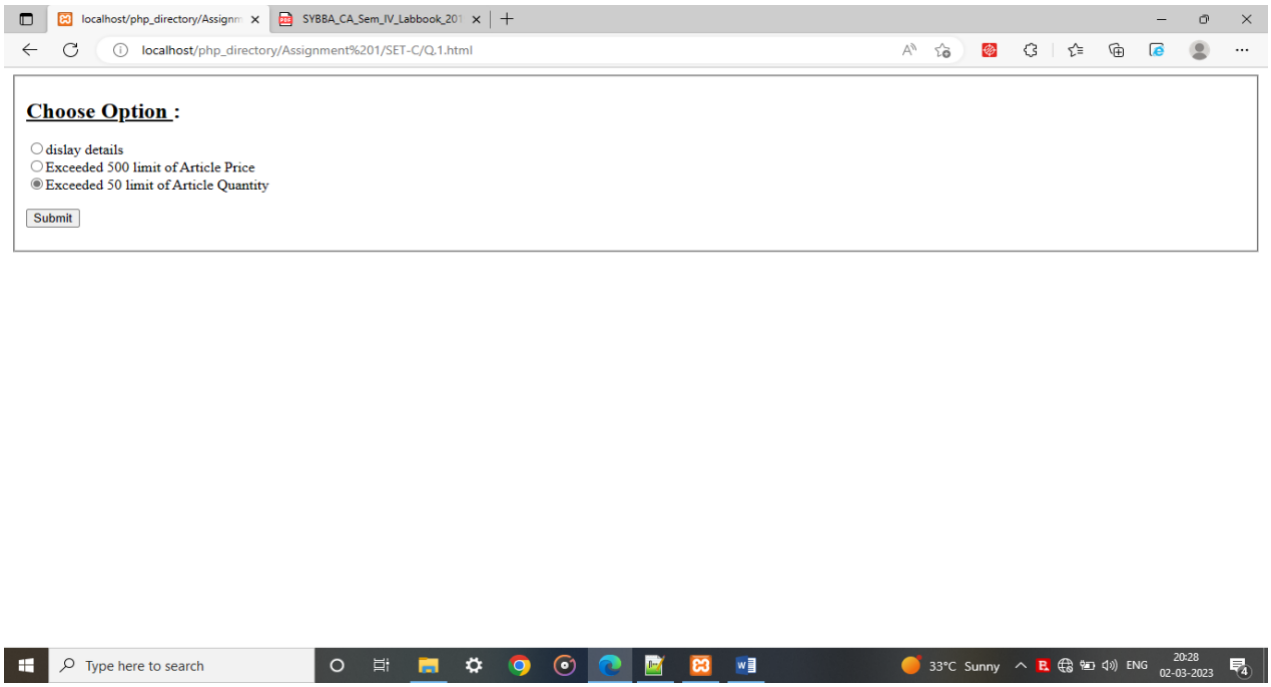
```
<?php
error_reporting(0);
class article{
public $articleid, $name, $articlequantity, $price, $result;
function __construct($id,$names,$quantity,$cost){
$this->articleid=$id;
$this->name=$names;
$this->articlequantity=$quantity;
$this->price=$cost;
}
function display(){
echo "<tr><td>".$this->articleid."</td>
<td>".$this->name."</td>
<td>".$this->articlequantity."</td>
<td>".$this->price."</td><tr>";
}
function exceed(){
        if($this->price>500){
                echo"
                <tr><td>".$this->articleid."</td>
    <td>".$this->name."</td>
    <td>".$this->articlequantity."</td>
    <td>".$this->price."</td><tr>";
        }
}
function quantity_exceed(){
        if($this->articlequantity>50){
        echo"
```

```
                    <tr><td>".$this->articleid."</td>
    <td>".$this->name."</td>
    <td>".$this->articlequantity."</td>
    <td>".$this->price."</td><tr>";
        }
}
}

$obj[0]=new article(01,"Masterpeice",200,1000);
$obj[1]=new article(02,"Ancient Legends",550,500);
$obj[2]=new article(03,"Warrior Era",600,1500);
$obj[3]=new article(04,"Modern Era",100,700);
$obj[4]=new article(05,"Cyber Era",900,400);

$choice=$_POST['radio'];
switch($choice){
        case 1:
echo"<table border='1'><tr><th>Article Id</th>
<th>Article Name</th>
<th>Quantity</th>
<th>Price</th></tr>";
for($i=0;$i<5;$i++){
        $obj[$i]->display();
}
break;



case 2: echo "<table border='1'<tr><th>Article Id</th>
                    <th>Article Name</th>
                    <th>Article Quantity</th>
                    <th>Article price</th></tr>";
  for($i=0;$i<5;$i++){
        $obj[$i]->exceed();
}
break;




case 3: echo "<table border='1'<tr><th>Article Id</th>

                    <th>Article Name</th>
                    <th>Article Quantity</th>
                    <th>Article price</th></tr>";
  for($i=0;$i<5;$i++){
        $obj[$i]->quantity_exceed();
```

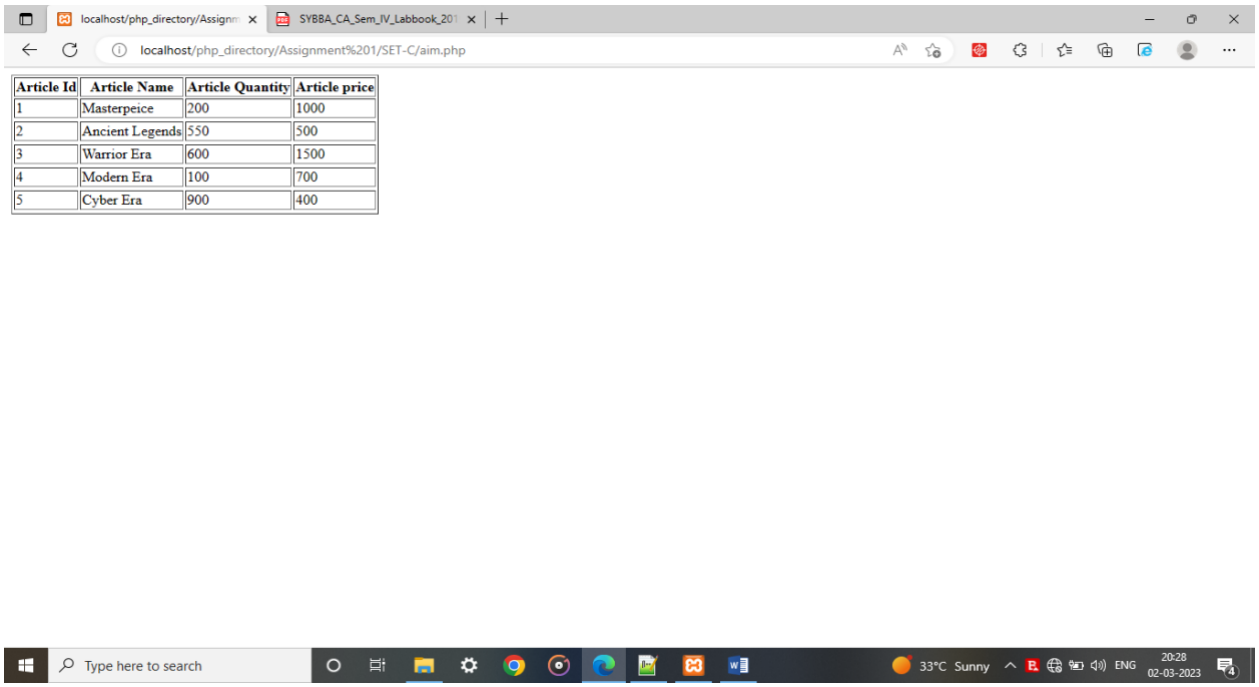
```
}
}
?>
```

Output :

OUTPUT 1



OUTPUT 2



Article Id	Article Name	Article Quantity	Article price
1	Masterpeice	200	1000
2	Ancient Legends	550	500
3	Warrior Era	600	1500
4	Modern Era	100	700
5	Cyber Era	900	400

ASSIGNMENT 1

SET-C

Q.2 Write a PHP program to create a class Worker that has data members as Worker_Name, No_of_Days_worked, Pay_Rate. Create and initialize the object using default constructor, Parameterized constructor. Also write necessary member function to calculate and display the salary of worker.

Ans:

PHP Code:

```
<?php
class Worker{
public $wname, $no_days, $rate, $name, $days, $r, $result;
public function __construct($a,$b,$c){
$this->wname=$a;
$this->no_days=$b;
$this->wrate=$c;
}
function Worker(){
$this->wname=$a;
$this->no_days=$b;
$this->wrate=$c;
}
function calculate2($b,$c){
echo"<hr><h3><u>Using Parameterized Constructor :</h3></u>";
$this->result=$this->no_days*$this->wrate;
echo"Worker name is :".$this->wname;
echo"<br>salary is :".$this->result;
}
function calculate(){
echo"<hr><h3><u>Using Default Constructor :</h3></u>";
$this->result=$this->no_days*$this->wrate;
echo"Worker name is :".$this->wname;
echo"<br>salary is :".$this->result;
}
}

$obj=new Worker('Ganesh',15,300);
$obj->calculate2(15,300);
$obj->calculate();
?>
```

Output :