SOP 1 — Eligible to Vote

Question:

Write a PHP program to check if a person is eligible to vote or not. The program should include the following-

```html
<html>
<body>
<form method="GET" action="age.php">
Enter Age: <input type="text" name="age1">
<input type="submit" value="Check">
</form>
</body>
</html>
```

```php
<?php
function voting() {
   $a = $_GET["age1"];
   if ($a >= 18) {
     echo "Eligible for voting";
   } else {
     echo "Not Eligible for voting";
   }
}
voting();
?>
```

SOP 2 — Count Vowels

Question:

Write a PHP function to count the total number of vowels (a,e,i,o,u) from the string. Accept a string by using HTML form.

*** Client side Script ***

```html
<html>
<body>
<form method="POST" action="vowel.php">
Enter String: <input type="text" name="t1">
<input type="submit" value="Check">
</form>
</body>
</html>
```

*** Server side Script ***

```php
<?php
$v = $_POST["t1"];
$c = 0;
for ($i = 0; $i < strlen($v); $i++) {
  $ch = strtolower($v[$i]);
  if ($ch=='a' || $ch=='e' || $ch=='i' || $ch=='o' || $ch=='u') {
    $c++;
  }
}
echo "Number of vowels: " . $c;
?>
```

SOP 3 — Associative Array Operations

Question:

Write a PHP program to perform the following operations on an associative array.

```
<html>
<head><title> SOP3 PHP</title></head>
<body>
<?php
    $m1=array("English"=>"55","Hindi"=>"60","Math"=>"70","Marathi"=>"85");
echo "<br> your score is ",$m1['English']. "in English";
echo "<br> your score is ",$m1['Hindi']. "in Hindi";
echo "<br> your score is ",$m1['Math']. "in Math";
echo "<br> your score is ",$m1['Marathi']. "in Marathi";
echo "<br> size of array is ".count($m1);
array_splice($m1,0,1);
echo "<br><br><b>After deleting array is </br>";
foreach($m1 as $x=>$x_value)
{
echo "<br> <br>key=" .$x . ",value=" .$x_value;
echo"<br";
}
?>
</body>
</html>
```

SOP 4 — Marks, Total & Percentage

Question:

Write a PHP program to save marks of English, Hindi, Marathi, Maths and Information Technology in an array. Display marks of individual subject along with total marks and percentage

```
<html>
<head><title> SOP4 PHP</title></head>
$a = array("English"=>55, "Hindi"=>66, "Marathi"=>77, "Maths"=>88, "Information Technology"=>9
<body>
<?php
$a=array(75,88,91,79,83);
$t=0;
$x=0;
$c=count($a);
for($x=0,$<$c,$x++)
{
echo"<br><br>marks in subject.$a[$x]";
$t=$t+$a[$x];
}
$p=$t*100/500;
echo"<br><br>total is:.$t";
echo"<br><br>percentage is:.$p";
?>
</body>
</html>
```

SOP 6 — Electricity Bill Calculation

Question:

Write a program using PHP to calculate Electricity bill by accepting the limits.

```html
<html>
<body>
<form method="POST" action="bill.php">
Enter units: <input type="text" name="units">
<input type="submit" value="Submit">
</form>
</body>
</html>
```

```php
<?php
$units=$_GET["unit"];
if($units < 100){
 $bill = $units*1;
 }
elseif($units > 100 && $units <=200){
 $temp = 100*1;
 $remaining_units = $units - 100;
 $bill = $temp + ($remaining_units *2);
 }
elseif($units > 200 && $units <=300){
 $temp = (100*1)+ (100*2);
 $remaining_units = $units - 200;
 $bill = $temp + ($remaining_units *3);
 }
else{
 $temp = (100*1)+ (100*2)+ (100*3)+250;
 $remaining_units = $units - 300;
 $bill = $temp + ($remaining_units *7);
 }
 $tot=$bill+250;
 echo"Total bill to be paid for Month of OCT". $tot;
?>
```