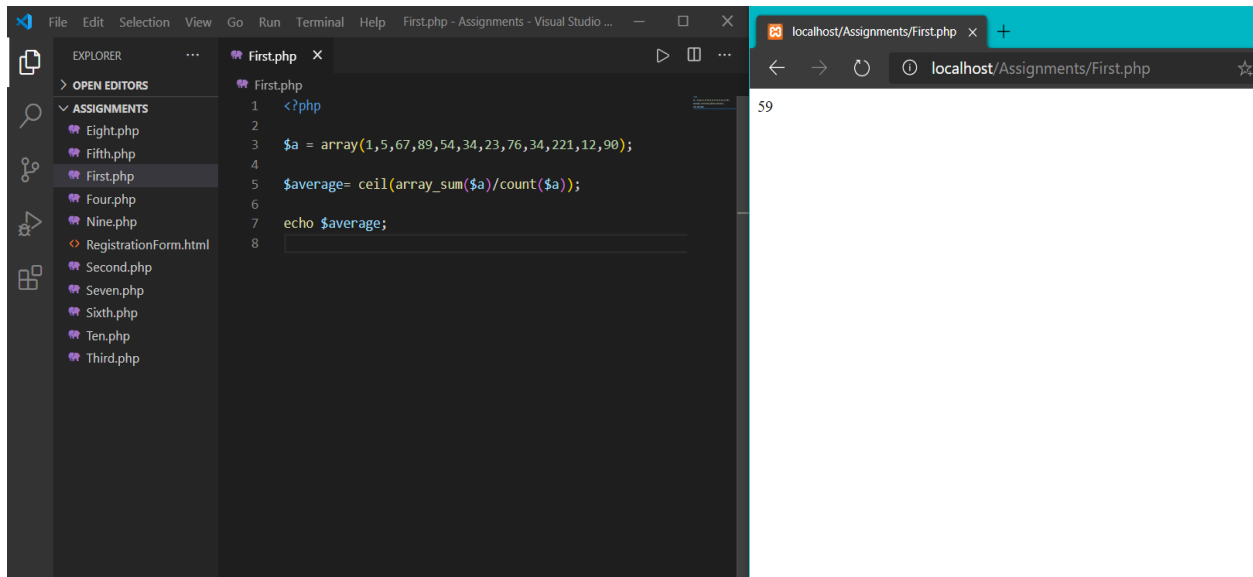


U18CO018
Shubham Shekhaliya
Assignment-2 (ST)
PHP

Write a PHP program.

1-> To find average of N numbers.

```
<?php
$a = array(1,5,67,89,54,34,23,76,34,221,12,90);
$average= ceil(array_sum($a)/count($a));
echo $average;
```



2-> Armstrong Number between 1 to 500.

```
<?php
function digit($x){
    $cnt=0;
    $div=10;
    while($x>=1) {
        $x=$x/$div;
        $cnt++;
    }
    return $cnt;
}
function power($x,$n){
    $res=1;
    while($n!=0){
```

```

        $res*=$x;
        $n--;
    }
    return $res;
}
$num=500;
echo "Armstrong numbers Till $num : ";
for($i=1;$i<=$num;$i++){
    $n=digit($i);
    $x=$i;
    $ans=0;
    while($x!=0){
        $tp=$x%10;
        $ans+=power($tp,$n);
        $x=$x/10;
    }
    if($ans==$i){
        echo "$i ";
    }
}

```

The screenshot shows a Visual Studio Code editor with a file explorer on the left containing various PHP files. The main editor window displays the PHP code for finding Armstrong numbers. To the right, a web browser window shows the output of the script: "Armstrong numbers Till 500 : 1 2 3 4 5 6 7 8 9 153 370 371 407".

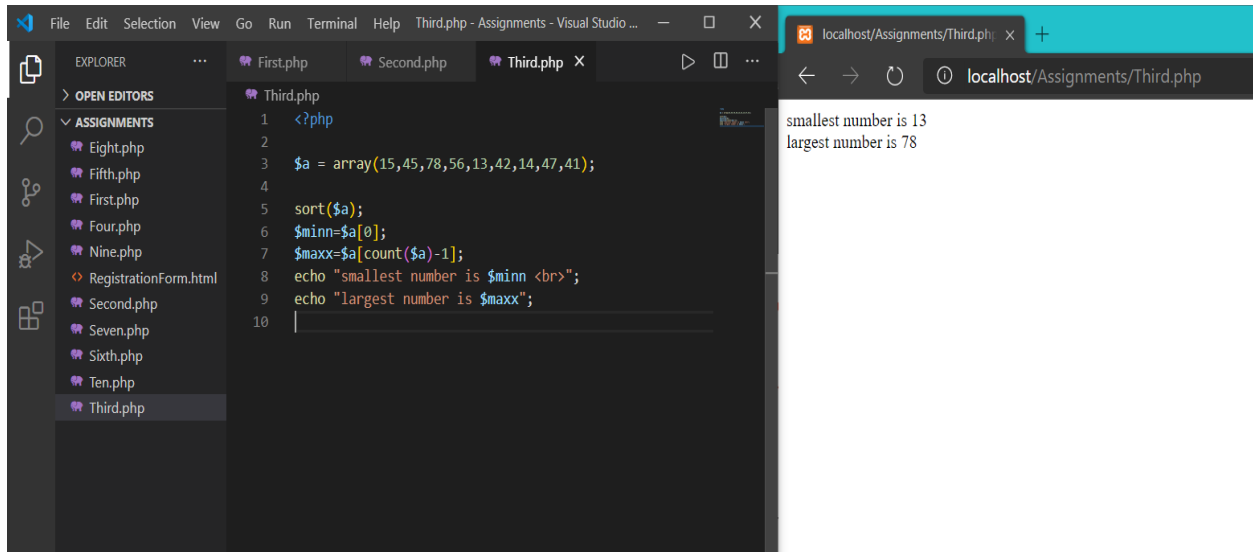
```

File Edit Selection View Go Run Terminal Help Second.php - Assignments - Visual Studio...
EXPLORER
> OPEN EDITORS
ASSIGNMENTS
  Eight.php
  Fifth.php
  First.php
  Four.php
  Nine.php
  RegistrationForm.html
  Second.php
  Seven.php
  Sixth.php
  Ten.php
  Third.php
Second.php x
1 <?php
2
3 function digit($x){
4     $cnt=0;
5     $div=10;
6     while($x>=1) {
7         $x=$x/$div;
8         $cnt++;
9     }
10    return $cnt;
11 }
12
13 function power($x,$n){
14     $res=1;
15     while($n!=0){
16         $res*=$x;
17         $n--;
18     }
19    return $res;
20 }
21 $num=500;
22 echo "Armstrong numbers Till $num : ";
23 for($i=1;$i<=$num;$i++){
24     $n=digit($i);
25     $x=$i;
26     $ans=0;
27     while($x!=0){
28         $tp=$x%10;
29         $ans+=power($tp,$n);
30         $x=$x/10;
31     }
32     if($ans==$i){
33         echo "$i ";
34     }
35 }
36
localhost/Assignments/Second.php
Amstrong numbers Till 500 : 1 2 3 4 5 6 7 8 9 153 370 371 407

```

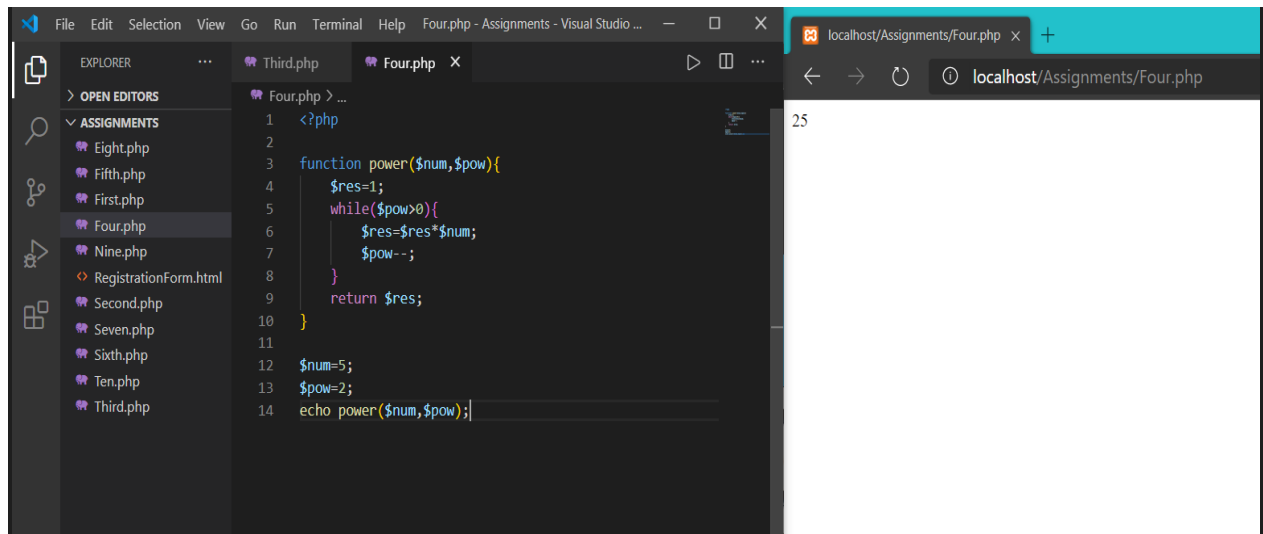
3-> To print the Largest and Smallest number.

```
<?php
$a = array(15,45,78,56,13,42,14,47,41);
sort($a);
$minn=$a[0];
$maxx=$a[count($a)-1];
echo "smallest number is $minn <br>";
echo "largest number is $maxx";
```



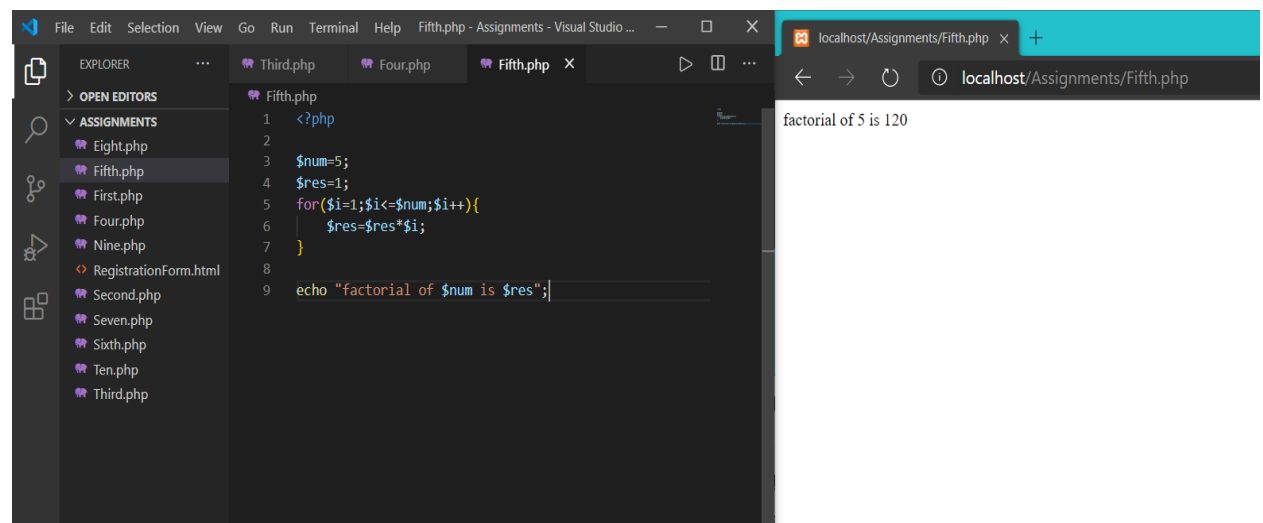
4-> To find exponential without using pow() method.

```
<?php
function power($num,$pow){
    $res=1;
    while($pow>0){
        $res=$res*$num;
        $pow--;
    }
    return $res;
}
$num=5;
$pow=2;
echo power($num,$pow);
```



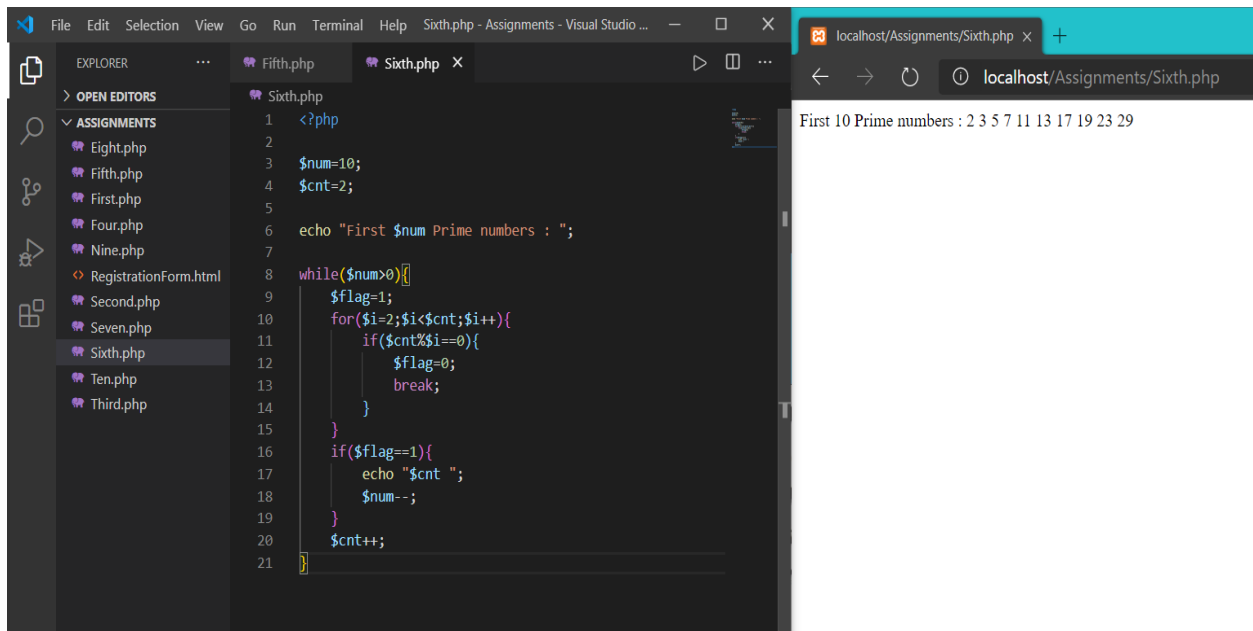
5-> To print Factorial of a Number

```
<?php
$num=5;
$res=1;
for($i=1;$i<=$num;$i++){
    $res=$res*$i;
}
echo "factorial of $num is $res";
```



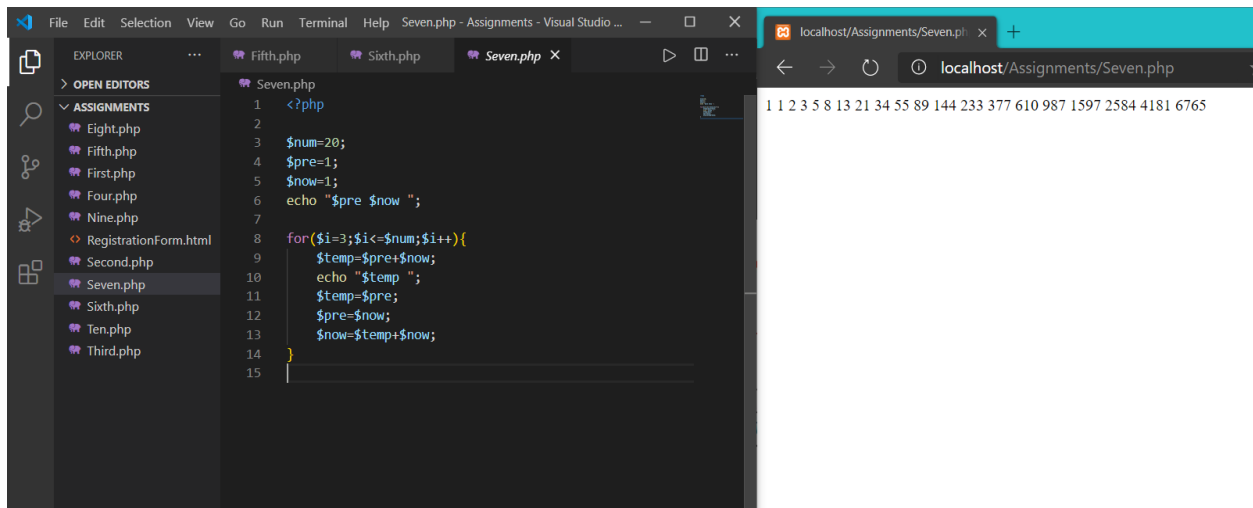
6-> To find first N Prime Numbers

```
<?php
$num=10;
$cnt=2;
echo "First $num Prime numbers : ";
while($num>0){
    $flag=1;
    for($i=2;$i<$cnt;$i++){
        if($cnt%$i==0){
            $flag=0;
            break;
        }
    }
    if($flag==1){
        echo "$cnt ";
        $num--;
    }
    $cnt++;
}
```



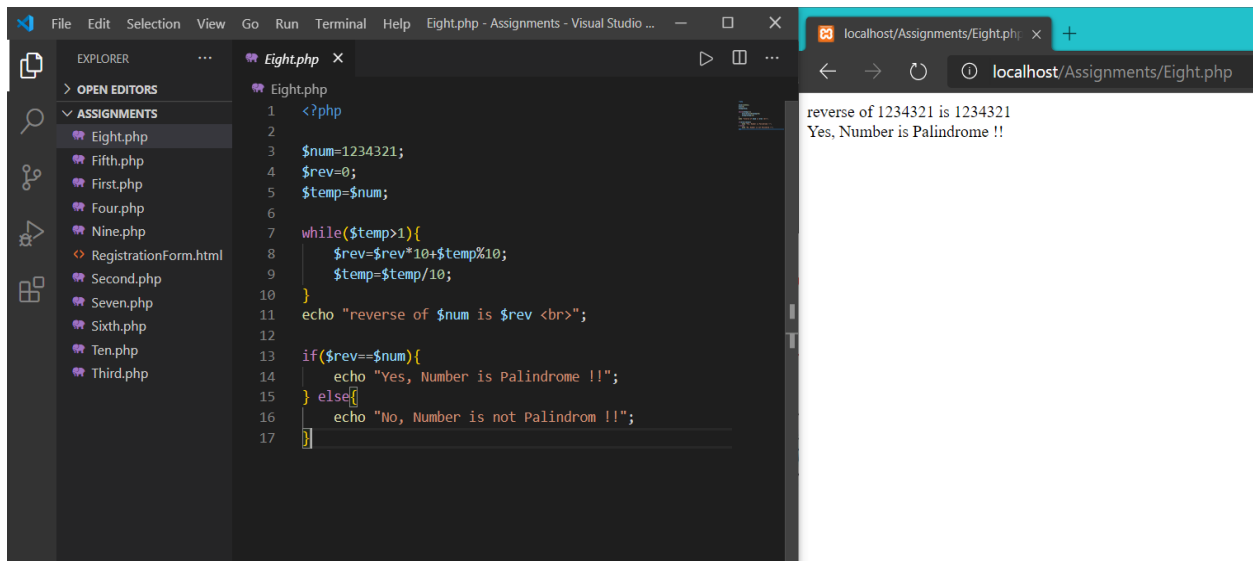
7-> To print the Fibonacci Series.

```
<?php
$num=20;
$pre=1;
$now=1;
echo "$pre $now ";
for($i=3;$i<=$num;$i++){
    $temp=$pre+$now;
    echo "$temp ";
    $temp=$pre;
    $pre=$now;
    $now=$temp+$now;
}
```



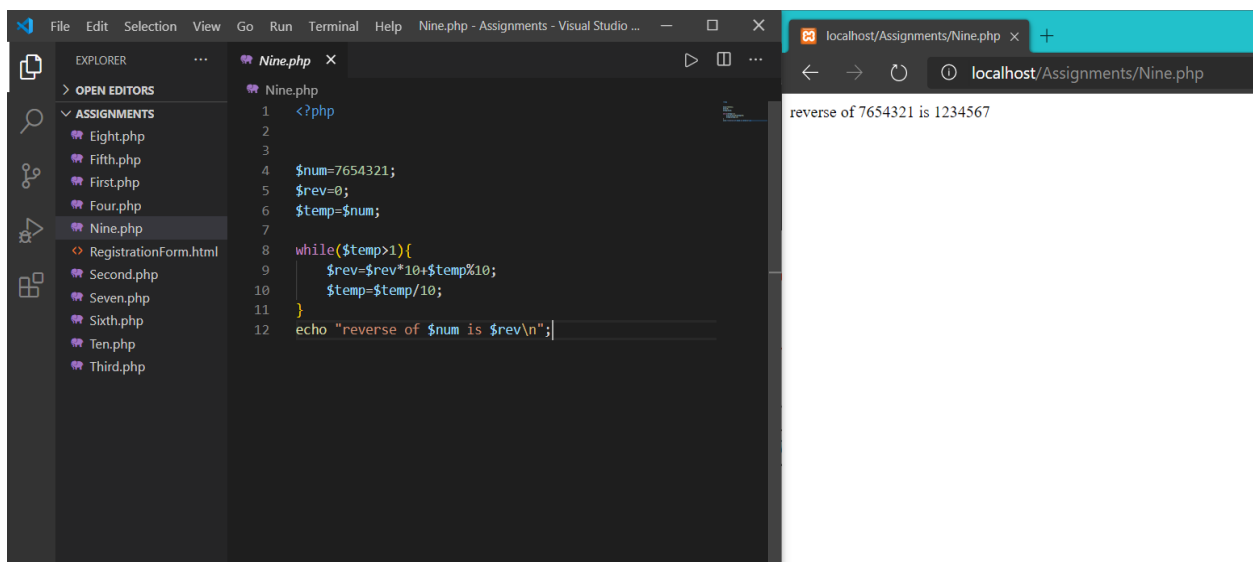
8-> To check whether a Number is a Palindrome.

```
<?php
$num=1234321;
$rev=0;
$temp=$num;
while($temp>1){
    $rev=$rev*10+$temp%10;
    $temp=$temp/10;
}
echo "reverse of $num is $rev <br>";
if($rev==$num){
    echo "Yes, Number is Palindrome !!";
} else{
    echo "No, Number is not Palindrome !!";
}
```



9-> To reverse given number.

```
<?php
$num=7654321;
$rev=0;
$temp=$num;
while($temp>1){
    $rev=$rev*10+$temp%10;
    $temp=$temp/10;
}
echo "reverse of $num is $rev\n";
```



10-> To print number triangle.

```
<?php
$num=6;
for($i=1;$i<=$num;$i++){
    for($j=1;$j<=$num-$i;$j++)
        echo "&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;";
    for($j=1;$j<=$i;$j++)
        echo "$j";
    for($j=$i-1;$j>=1;$j--)
        echo "$j";
    echo "<br>";
}
```

