

Slip 10: HTML Program - PHP Arithmetic Operations

```
<html>
<head><title>Arithmetic Operations</title></head>
<body>
  <form action="slip10.php" method="get">
    Enter first number: <input type="text" name="num1"><br>
    Enter second number: <input type="text" name="num2"><br>
    Select operation:<br>
    <input type="radio" name="op" value="mod"> Modulo<br>
    <input type="radio" name="op" value="power"> Power<br>
    <input type="radio" name="op" value="sum"> Sum of first n numbers<br>
    <input type="radio" name="op" value="fact"> Factorial<br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

PHP File (slip10.php)

```
<?php
$num1 = $_GET['num1'];
$num2 = $_GET['num2'];
$op = $_GET['op'];

function mod($a, $b) {
    return $a % $b;
}

function power($a, $b) {
    return pow($a, $b);
}

function sum($n) {
    $sum = 0;
    for ($i = 1; $i <= $n; $i++) {
        $sum += $i;
    }
    return $sum;
}

function fact($n) {
    $fact = 1;
    for ($i = 1; $i <= $n; $i++) {
        $fact *= $i;
    }
    return $fact;
}

switch ($op) {
    case 'mod':
        echo "Modulus: " . mod($num1, $num2);
        break;
    case 'power':
        echo "$num1 raised to $num2: " . power($num1, $num2);
}
```

```
        break;
    case 'sum':
        echo "Sum of first $num1 numbers: " . sum($num1);
        break;
    case 'fact':
        echo "Factorial of $num2: " . fact($num2);
        break;
}
?>
```

Slip 10: Python Program - Column-wise Mean and Median

```
import pandas as pd

df = pd.read_csv('SOCR-HeightWeight.csv')
print('Column-wise Mean:')
print(df.mean())
print('Column-wise Median:')
print(df.median())
```