```
1. *
      **
      ***
      ***
   2. <?php
   3. // Pattern 1:
   4. //
   5. for ($i = 1; $i < 5; $i++) {
          for (\$j = 1; \$j \leftarrow \$i; \$j++) {
               echo "*";
   7.
   8.
   9.
          echo "<br>";
   10.
   11.
            ?>
2. ****
  ***
   **
   *
<?php
for ($i = 1; $i <= 4; $i++) {
    for (\$j = 1; \$j < \$i; \$j++) {
         echo "&nbsp";
    for (\$j = \$i; \$j \leftarrow 4; \$j++) {
        echo "*";
    echo "<br>";
3. *****
   ****
   ***
```

```
<?php
$rows = 6;
for ($i = $rows; $i >= 1; $i--) {
```

```
for ($k = 1; $k <= $rows - $i; $k++) {
     echo "&nbsp";
}
for ($j = 1; $j <= (2 * $i) - 1; $j++) {
     echo "*";
}
echo "<br>";
}
?>
```

4. Prime or not

```
<?php
$num = 100;
$count =0;
echo "Program to check " . $num . " is a prime number or not<br>;
for ($i = 1; $i <= $num; $i++) {
    if ($num % $i == 0) {
        $count++;
    }
}
if ($count == 2) {
    echo $num . " is a Prime Number";
}
else{
echo $num . " is not a Prime Number";
}</pre>
```

5. Palindrome

```
}
?>
```

6. Armstrong

7. Fibonacci

```
<?php
$num = 0;
$n1 = 0;
$n2 = 1;
echo "<h3>Fibonacci series for first 11 numbers: </h3>";
echo "<br/>'echo "<br/>';
echo $n1 . ' ' . $n2 . ' ';
while ($num < 9) {
    $n3 = $n2 + $n1;
    echo $n3 . ' ';
    $n1 = $n2;
    $n2 = $n3;
    $num = $num + 1;
}</pre>
```