1 Multiplication table

```php
<!DOCTYPE html>
<html>
<head>
    <title>Multiplication Table</title>
</head>
<body>

<form method="post">
    <input type="number" name="num" placeholder="Enter a number" required>
    <button type="submit">Show Table</button>
</form>

<?php
if (isset($_POST['num'])) {
    $num = $_POST['num'];

    for ($i = 1; $i <= 10; $i++) {
        echo $num . " x " . $i . " = " . ($num * $i) . "<br>";
    }
}
?>

</body>
</html>
```

2 Prime

```php
<!DOCTYPE html>
<html>
<body>
<form method="post">
    <input type="number" name="n" required>
    <button type="submit">Check</button>
</form>
<?php
if (isset($_POST['n'])) {
    $n = $_POST['n'];
    $f = 0;
    for ($i = 2; $i < $n; $i++) {
        if ($n % $i == 0) {
            $f = 1;
            break;
        }
    }
    if ($n > 1 && $f == 0)
        echo "Prime";
    else
        echo "Not Prime";
}
?>
</body>
</html>
```

3 Fibnocci

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
    <input type="number" name="n" required>
    <button type="submit">Show</button>
</form>

<?php
if (isset($_POST['n'])) {
    $n = $_POST['n'];

    $a = 0;
    $b = 1;

    for ($i = 1; $i <= $n; $i++) {
        echo $a . " ";
        $c = $a + $b;
        $a = $b;
        $b = $c;
    }
}
?>
</body>
</html>
```

4 Palindrome

```php
<!DOCTYPE html>
<html>
<body>
<form method="post">
    <input type="number" name="n" required>
    <button type="submit">Check</button>
</form>
<?php
if (isset($_POST['n'])) {
    $n = $_POST['n'];
    $rev = 0;
    $temp = $n;
    while ($temp > 0) {
        $rev = ($rev * 10) + ($temp % 10);
        $temp = (int)($temp / 10);
    }

    if ($n == $rev)
        echo "Palindrome";
    else
        echo "Not Palindrome";
}
?>

</body>
</html>
```

5 Armstrong

```php
<!DOCTYPE html>
<html>
<body>

<form method="post">
    <input type="number" name="n" required>
    <button type="submit">Check</button>
</form>

<?php
if (isset($_POST['n'])) {
    $n = $_POST['n'];
    $sum = 0;
    $temp = $n;

    while ($temp > 0) {
        $d = $temp % 10;
        $sum = $sum + ($d * $d * $d);
        $temp = (int)($temp / 10);
    }

    if ($n == $sum)
        echo "Armstrong Number";
    else
        echo "Not Armstrong Number";
}
?>

</body>
</html>
```

6 Simple Calculator

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="number" name="a" required>
<input type="number" name="b" required>

<select name="op">
   <option value="+">+</option>
   <option value="-">-</option>
   <option value="*">*</option>
   <option value="/">/</option>
</select>

<button>Calculate</button>
</form>

<?php
if(isset($_POST['a'])){
$a=$_POST['a'];
$b=$_POST['b'];
$op=$_POST['op'];

if($op=="+") echo $a+$b;
if($op=="-") echo $a-$b;
if($op=="*") echo $a*$b;
if($op=="/") echo $a/$b;
}
?>

</body>
</html>
```

7 Fahrenheit to Celsius

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="number" name="f" required>
<button>Convert</button>
</form>

<?php
if(isset($_POST['f'])){
$f=$_POST['f'];
$c=($f-32)*5/9;
echo $c;
}
?>

</body>
</html>
```

8 Count vow, digit, spaces

```php
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="text" name="s" required>
<button>Count</button>
</form>

<?php
if(isset($_POST['s'])){
$s=$_POST['s'];
$v=$d=$sp=0;

for($i=0;$i<strlen($s);$i++){
$c=$s[$i];

if($c=='a'||$c=='e'||$c=='i'||$c=='o'||$c=='u'||
   $c=='A'||$c=='E'||$c=='I'||$c=='O'||$c=='U')
   $v++;
else if($c>='0' && $c<='9')
   $d++;
else if($c==' ')
   $sp++;
}

echo "Vowels:$v Digits:$d Spaces:$sp";
}
?>

</body>
</html>
```

9 Form handling

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="text" name="name" placeholder="Name" required>
<input type="email" name="email" placeholder="Email" required>
<button>Submit</button>
</form>

<?php
if(isset($_POST['name'])){
$name=$_POST['name'];
$email=$_POST['email'];

echo "Name:$name Email:$email";
}
?>

</body>
</html>
```

10 Form validation

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="text" name="name" placeholder="Name">
<input type="text" name="email" placeholder="Email">
<input type="number" name="age" placeholder="Age">
<button>Submit</button>
</form>

<?php
if(isset($_POST['name'])){
$name=$_POST['name'];
$email=$_POST['email'];
$age=$_POST['age'];

if($name=="" || $email=="" || $age=="")
    echo "All fields required";
else if(!preg_match("/^[a-zA-Z ]+$/",$name))
    echo "Invalid Name";
else if(!filter_var($email,FILTER_VALIDATE_EMAIL))
    echo "Invalid Email";
else if($age<18)
    echo "Age must be 18 or above";
else
    echo "Valid Data";
}
?>

</body>
</html>
```

11 Date

Program 11.1
Format today's date in three different ways

```
<!DOCTYPE html>
<html>
<body>

<?php
echo "Today is " . date("Y/m/d") . "<br>";
echo "Today is " . date("Y.m.d") . "<br>";
echo "Today is " . date("Y-m-d") . "<br>";
echo "Today is " . date("l");
?>

</body>
</html>
```

Program 11.2
Output the current time in the specified format

```
<!DOCTYPE html>
<html>
<body>

<?php
echo "The time is " . date("h:i:sa");
?>

</body>
</html>
```

Program 11.3
Create a date using mktime()

```
<!DOCTYPE html>
<html>
<body>

<?php
$d = mktime(11, 14, 54, 8, 12, 2014);
echo "Created date is " . date("Y-m-d h:i:sa", $d);
```

```
?>

</body>
</html>
```

Program 11.4
Create a date from a string using strtotime()

```
<!DOCTYPE html>
<html>
<body>

<?php
$d = strtotime("10:30pm April 15 2014");
echo "Created date is " . date("Y-m-d h:i:sa", $d);
?>

</body>
</html>
```

Program 11.5
Converting a string to a date

```
<!DOCTYPE html>
<html>
<body>

<?php
$d = strtotime("tomorrow");
echo date("Y-m-d h:i:sa", $d) . "<br>";

$d = strtotime("next Saturday");
echo date("Y-m-d h:i:sa", $d) . "<br>";

$d = strtotime("+3 Months");
echo date("Y-m-d h:i:sa", $d) . "<br>";
?>

</body>
</html>
```

Program 11.6
Output the dates for the next six Saturdays

```php
<!DOCTYPE html>
<html>
<body>

<?php
$startdate = strtotime("Saturday");
$enddate = strtotime("+6 weeks", $startdate);

while ($startdate < $enddate) {
   echo date("M d", $startdate) . "<br>";
   $startdate = strtotime("+1 week", $startdate);
}
?>

</body>
</html>
```

12 Simple calculator using switch case

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="number" name="a" placeholder="First number" required>
<input type="number" name="b" placeholder="Second number" required>

<select name="op">
   <option value="add">+</option>
   <option value="sub">-</option>
   <option value="mul">*</option>
   <option value="div">/</option>
</select>

<button>Calculate</button>
</form>

<?php
if(isset($_POST['a'])){
$a=$_POST['a'];
$b=$_POST['b'];
$op=$_POST['op'];

switch($op){
   case "add": echo $a+$b; break;
   case "sub": echo $a-$b; break;
   case "mul": echo $a*$b; break;
   case "div": echo $a/$b; break;
}
}
?>

</body>
</html>
```

13 Reverse a number

```php
<!DOCTYPE html>
<html>
<body>
<form method="post">
<input type="number" name="n" required>
<button>Reverse</button>
</form>
<?php
if(isset($_POST['n'])){
$n=$_POST['n'];
$r=0;
while($n>0){
$r=$r*10+$n%10;
$n=(int)($n/10);
}
echo $r;
}
?>
</body>
</html>
```

Reverse a string

```php
<!DOCTYPE html>
<html>
<body>
<form method="post">
<input type="text" name="s" required>
<button>Reverse</button>
</form>
<?php
if(isset($_POST['s'])){
$s=$_POST['s'];
$r="";
for($i=strlen($s)-1;$i>=0;$i--){
$r.=$s[$i];
}
echo $r;
}
?>
</body>
</html>
```

14 Sum of digits

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="number" name="n" required>
<button>Find Sum</button>
</form>

<?php
if(isset($_POST['n'])){
$n=$_POST['n'];
$s=0;

while($n>0){
$s+=$n%10;
$n=(int)($n/10);
}

echo $s;
}
?>

</body>
</html>
```

15 Leap Year

```html
<!DOCTYPE html>
<html>
<body>

<form method="post">
<input type="number" name="y" placeholder="Enter year" required>
<button>Check</button>
</form>

<?php
if(isset($_POST['y'])){
$y=$_POST['y'];

if(($y%4==0 && $y%100!=0) || ($y%400==0))
    echo "Leap Year";
else
    echo "Not a Leap Year";
}
?>

</body>
</html>
```