

1. Check a number whether it is even or odd.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="number" name="number">
        <input type="submit" value="Submit">
    </form>
</body>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST")
    {
        $number = $_POST["number"];
        if ($number % 2 == 0)
        {
            echo "$number is a Even number";
        }
        else
        {
            echo "$number is a Odd number";
        }
    }
?>
</html>
```

Output:

5 is a Odd number

2. Check a year whether it is a leap year or not.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="year" name="year">
        <input type="submit" value="Submit">
    </form>
</body>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST")
    {

        $year = $_POST["year"];
        if (($year % 400 == 0) and ($year % 100 ==
0)) {
            echo "$year Leap Year";
        }
        else if (($year % 4 ==0) and ($year % 100 !=
0))
        {
            echo "$year Not a Leap Year";
        }
        else
        {
            echo "$year Not a Leap Year";
        }
    }
}
```

```
?>
</html>
```

Output:

2000 Leap Year

3. Print multiplication table of a number.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="number" name="number">
        <input type="submit" value="Submit">
    </form>
</body>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST")
    {

        $number = $_POST["number"];
        for($i=1;$i<=10;$i++)
        {
            echo $number." * ".$i." =
".$number*$i."<br>";
```

```
    }  
  }  
?>  
</html>
```

Output:


```
2 * 1 = 2  
2 * 2 = 4  
2 * 3 = 6  
2 * 4 = 8  
2 * 5 = 10  
2 * 6 = 12  
2 * 7 = 14  
2 * 8 = 16  
2 * 9 = 18  
2 * 10 = 20
```

4. Print the Patterns below:

a)

```
*  
* *  
* * *  
* * * *  
* * * * *
```

Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <title>Document</title>  
</head>  
<body>  
    <?php
```

```

        for($i=1;$i<=5;$i++)
        {
            for($j=1;$j<=$i;$j++)
            {
                echo "* ";
            }
            echo "<br>";
        }
    ?>

</body>
</html>

```

Output:

```

*
* *
* * *
* * * *
* * * * *

```

b)

```

*
* *
* * *
* * * *
* * * * *

```

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <?php
        for($i=1;$i<=5;$i++)

```

```

        {
            for($j=1;$j<=5-$i;$j++)
            {
                echo "&nbsp;&nbsp;&nbsp;";
            }
            for($k=1;$k<=$i;$k++)
            {
                echo "*&nbsp;&nbsp;&nbsp;";
            }
            echo "<br>";
        }
    ?>

</body>
</html>

```

Output:

```

      *
    * *
  * * *
* * * *
* * * * *

```

c)

```

* * * * *
* * * *
* * *
* * *
* *
*

```

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>

```

```

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

  ?>

</body>
</html>

```

Output:

```

* * * * *
 * * * *
  * * *
   * *
    *

```

d)

```

*
* *
* * *
* * * *
* * * * *
* * * * *
* * * *
* * *
* * *
* *
*

```

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <?php
        for($i=1;$i<=5;$i++)
        {
            for($j=1;$j<=5-$i;$j++)
            {
                echo "&nbsp;&nbsp;&nbsp;";
            }
            for($k=1;$k<=$i;$k++)
            {
                echo "&*&nbsp;&nbsp;&nbsp;";
            }
            echo "<br>";
        }
        for($i=1;$i<=5;$i++)
        {
            for($j=1;$j<=$i;$j++)
            {
                echo "&nbsp;&nbsp;&nbsp;";
            }
            for($k=1;$k<=5-$i;$k++)
            {
                echo "&*&nbsp;&nbsp;&nbsp;";
            }
            echo "<br>";
        }
    ?>
```



```
</body>
</html>
```

Output:

```
  *
 * *
* * *
* * * *
* * * * *
 * * * *
  * * *
    * *
      *
```

5. WAP to calculate the sum of the digits of a number.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Document</title>
</head>
<body>
  <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    <input type="number" name="number">
    <input type="submit" value="Submit">
  </form>
</body>
<?php
  if ($_SERVER["REQUEST_METHOD"] == "POST")
```

```

{
    $number = $_POST["number"];
    $store=$number;
    $sum = 0;
    while($number>0)
    {
        $sum = $sum + $number%10;
        $number = $number/10;
    }
    // echo "Sum of digit $number is $sum";
    echo "Sum of digit $store is $sum";
}
?>
</html>

```

Output:

Sum of digit 123 is 6

6. WAP to check if a number is Palindrome or not.

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="text" name="number">

```

```

        <input type="submit" value="Submit">
    </form>
</body>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST")
    {
        $number = $_POST["number"];

        if (strrev($number) == $number)
        {
            echo "$number is Palindrome";
        }
        else
        {
            echo "$number is not Palindrome";
        }
    }

?>
</html>

```

Output:

121 is Palindrome

7. Write PHP code to print Grade card of Student using Switch case.

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>

```

```
<title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="number" name="marks">
        <input type="submit" value="Submit">
    </form>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST")
        {

            $marks = $_POST["marks"];
            echo "Marks:  $marks <br>";
            switch ($marks)
            {
                case ($marks >= 90):
                    echo "Grade A";
                    break;
                case ($marks >= 80):
                    echo "Grade B";
                    break;
                case ($marks >= 70):
                    echo "Grade C";
                    break;
                case ($marks >= 60):
                    echo "Grade D";
                    break;
                case ($marks >= 50):
                    echo "Grade E";
                    break;
                case ($marks >= 40):
                    echo "Grade F";
                    break;
            }
        }
    }
    </body>
</html>
```

```
                default:
                    echo "Grade G";
            }
    }

    ?>
</body>
</html>
```

Output:

Marks: 90

Grade A

8. Write PHP code to print rainbow colours within an array using for_each loop.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <h2> Rainbow Colors </h2>
    <?php
        $colors = array("red", "orange", "yellow",
"green", "blue", "indigo", "violet");
        foreach($colors as $color){
            echo $color . "<br>";
        }
    }
```

```
    ?>  
</body>  
</html>
```

Output:

Rainbow Colors

red
orange
yellow
green
blue
indigo
violet

9. Write PHP code to print Fibonacci series.

Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <title>Document</title>  
</head>  
<body>  
    <form method="post" action="<?php echo  
htmlspecialchars($_SERVER["PHP_SELF"]);?>">  
        <input type="number" name="num">  
        <input type="submit" value="Submit">  
    </form>  
    <?php  
        if ($_SERVER["REQUEST_METHOD"] == "POST")  
        {
```

```

        $num = $_POST["num"];
        $a = 0;
        $b = 1;
        $c = 0;
        echo "Fibonacci Series of $num : <br>";
        echo $a . "<br>";
        echo $b . "<br>";
        for($i = 2; $i < $num; $i++){
            $c = $a + $b;
            echo $c . "<br>";
            $a = $b;
            $b = $c;
        }
    }
?>

</body>
</html>

```

Output:

Fibonacci Series of 5 :

0

1

1

2

3

10. Write PHP code to check that an user is eligible to vote or not.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="number" name="age">
        <input type="submit" value="Submit">
    </form>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST")
        {

            $age = $_POST["age"];
            if($age >= 18){
                echo "Your age is $age and you are
eligible to vote.";
            }
            else{
                echo "Your age is $age and you are
not eligible to vote.";
            }
        }
    ?>

</body>
</html>
```


Output:

Your age is 17 and you are not eligible to vote.

11. Write PHP code to calculate Largest among three numbers using a) If_else b) conditional operator.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form action="14.php" method="post">
        <input type="number" name="num1"
placeholder="Enter first number">
        <input type="number" name="num2"
placeholder="Enter second number">
        <input type="number" name="num3"
placeholder="Enter third number">
        <input type="submit" name="submit">
    </form>
    <?php
        if(isset($_POST['submit'])){
            $num1 = $_POST['num1'];
            $num2 = $_POST['num2'];
            $num3 = $_POST['num3'];
            echo "num1 = $num1, num2 = $num2, num3 =
$num3 <br>";
```

```

        if($num1 > $num2 && $num1 > $num3){
            echo "The largest number is: " .
$num1;
        }elseif($num2 > $num1 && $num2 > $num3){
            echo "The largest number is: " .
$num2;
        }else{
            echo "The largest number is: " .
$num3;
        }
    }
?>

</body>
</html>

```

Output:

num1 = 10, num2 = 20, num3 = 30
The largest number is: 30

12. Write PHP code to design a calculator program to show use of +,-,* ,/ operators.

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>

```

```
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <input type="number" name="num1">
        <input type="number" name="num2">
        <select name="operator">
            <option value="add">Add</option>
            <option value="sub">Subtract</option>
            <option value="mul">Multiply</option>
            <option value="div">Divide</option>
        </select>
        <input type="submit" value="Submit">
    </form>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST")
        {
            $num1 = $_POST["num1"];
            $num2 = $_POST["num2"];
            $operator = $_POST["operator"];
            echo "num1 = $num1, num2 = $num2,
operator = $operator <br>";
            switch($operator){
                case "add":
                    echo "The sum of $num1 and $num2
is: " . ($num1 + $num2);
                    break;
                case "sub":
                    echo "The difference of $num1 and
$num2 is: " . ($num1 - $num2);
                    break;
                case "mul":
                    echo "The product of $num1 and
$num2 is: " . ($num1 * $num2);
```

```

        break;
    case "div":
        echo "The quotient of $num1 and
$num2 is: " . ($num1 / $num2);
        break;
    default:
        echo "Invalid operator";
    }
}

?>
</body>
</html>

```

Output:

num1 = 10, num2 = 20, operator = add
The sum of 10 and 20 is: 30

13. Write a PHP code to calculate area and perimeter of Triangle.

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>

```

```

<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
  side1:<input type="number" name="side1" >
  side2: <input type="number" name="side2">
  side3: <input type="number" name="side3">

  <input type="submit" value="Submit">
</form>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST")
    {
        $side1 = $_POST["side1"];
        $side2 = $_POST["side2"];
        $side3 = $_POST["side3"];
        echo " side1 = $side1, side2 = $side2,
side3 = $side3 <br>";

        $perimeter = $side1 + $side2 + $side3;
        $s = $perimeter / 2;
        $area =
($s*($s-$side1)*($s-$side2)*($s-$side3)) ** 0.5;
        echo "The area of the triangle is: $area
<br>";

        echo "The perimeter of the triangle is:
$perimeter <br>";
    }
?>

</body>
</html>

```

Output:

side1: side2: side3:

side1 = 10, side2 = 10, side3 = 10
The area of the triangle is: 43.301270189222
The perimeter of the triangle is: 30

14. Write a PHP code to calculate the area and perimeter of the rectangle.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        height:<input type="number" name="height" >
        width: <input type="number" name="width">
        <input type="submit" value="Submit">
    </form>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST")
        {
            $height = $_POST["height"];
            $width = $_POST["width"];
            echo " height = $height, width = $width
<br>";

            $perimeter = 2 * ($height + $width);
            $area = $height * $width;
            echo "The area of the rectangle is: $area
<br>";
```

```

        echo "The perimeter of the rectangle is:
$perimeter <br>";
    }
?>

</body>
</html>

```

Output:

height: width:

height = 2, width = 2
 The area of the rectangle is: 4
 The perimeter of the rectangle is: 8

15. Write a PHP code to calculate area and perimeter of circle.

Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        radius:<input type="number" name="radius" >
        <input type="submit" value="Submit">
    </form>
    <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST")

```

```
{
    $radius = $_POST["radius"];
    echo " radius = $radius <br>";

    $perimeter = 2 * pi() * $radius;
    $area = pi() * $radius ** 2;
    echo "The area of the circle is: $area
<br>";
    echo "The perimeter of the circle is:
$perimeter <br>";
}
?>

</body>
</html>
```

Output:

radius:

radius = 5

The area of the circle is: 78.539816339745

The perimeter of the circle is: 31.415926535898