

Practical 25

Write a program in PHP to demonstrate variable functions: `gettype()`, `settype()`, `isset()`, `unset()`

```
<?php
$num = 10;

$type = gettype($num);
echo "Type of \$num: $type<br>";

settype($num, 'string');
$type = gettype($num);
echo "Type of \$num after settype(): $type<br>";

if (isset($num)) {
    echo "\$num is set and not null<br>";
} else {
    echo "\$num is not set or null<br>";
}

unset($num);
if (isset($num)) {
    echo "\$num is set and not null<br>";
} else {
    echo "\$num is not set or null<br>";
}
?>
```

Output:

Type of \$num: integer

Type of \$num after settype(): string

\$num is set and not null

\$num is not set or null

Practical 26

Write a program in PHP to check student grades based on the marks using if-else statement

```
<?php
$marks = 57;

if ($marks >= 90) {
    $grade = 'A+' ;
} elseif ($marks >= 80) {
    $grade = 'A' ;
} elseif ($marks >= 70) {
    $grade = 'B' ;
} elseif ($marks >= 60) {
    $grade = 'C' ;
} elseif ($marks >= 50) {
    $grade = 'D' ;
} else {
    $grade = 'F' ;
}

echo "Student's marks: $marks<br>";
echo "Student's grade: $grade";
?>
```

Output:

Student's marks: 57

Student's grade: D

Practical 27

Write a program in PHP to show day of the week based on numbers using switch case statement

```
<?php
$dayNumber = 3;

switch ($dayNumber) {
    case 0:
        $dayName = 'Sunday';
        break;
    case 1:
        $dayName = 'Monday';
        break;
    case 2:
        $dayName = 'Tuesday';
        break;
    case 3:
        $dayName = 'Wednesday';
        break;
    case 4:
        $dayName = 'Thursday';
        break;
    case 5:
        $dayName = 'Friday';
        break;
    case 6:
        $dayName = 'Saturday';
        break;
    default:
        $dayName = 'Invalid day number';
        break;
}

echo "Day Number: $dayNumber<br>";
echo "Day Name: $dayName";
?>
```

Output:

Day Number: 3

Day Name: Wednesday

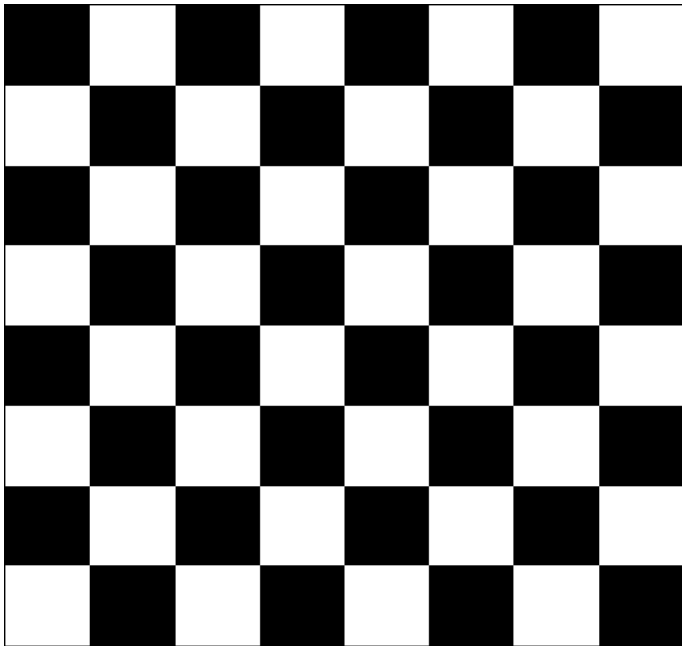
Practical 28

Write a program in PHP using nested for loop that creates a chess board.

Condition: You can use html table having width=400px and take 30px as cell height and width

```
<!DOCTYPE html>
<html>
<head>
    <title>Chess Board</title>
    <style>
        table {
            width: 400px;
            border-collapse: collapse;
            border: 1px black solid;
        }
        td {
            width: 30px;
            height: 30px;
        }
        .white {
            background-color: #ffffff;
        }
        .black {
            background-color: #000000;
        }
    </style>
</head>
<body>
    <table>
        <?php
        for ($row = 1; $row <= 8; $row++) {
            echo "<tr>";
            for ($col = 1; $col <= 8; $col++) {
                $total = $row + $col;
                if ($total % 2 == 0) {
                    echo "<td class='black'></td>";
                } else {
                    echo "<td class='white'></td>";
                }
            }
            echo "</tr>";
        }
        ?>
    </table>
</body>
</html>
```

Output:



Practical-29

Create a PHP script which displays the capital and country name from the array .Sort the list by the capital of the countries.

Example- Capital of Germany is Berlin

```
<?php
// Array of country-capital pairs
$countries = array(
    array("country" => "Germany", "capital" => "Berlin"),
    array("country" => "France", "capital" => "Paris"),
    array("country" => "United States", "capital" => "Washington,
D.C."),
    array("country" => "Japan", "capital" => "Tokyo"),
    array("country" => "India", "capital" => "New Delhi")
);

// Function to sort the countries based on capital
function sortByCapital($a, $b) {
    return strcmp($a['capital'], $b['capital']);
}

// Sort the countries by capital
usort($countries, 'sortByCapital');

// Display the capital and country name
foreach ($countries as $country) {
    echo "Capital of " . $country['country'] . " is " .
    $country['capital'] . "<br>";
}
?>

</body>
</html>
```

Output:

Capital of Germany is Berlin

Capital of India is New Delhi

Capital of France is Paris

Capital of Japan is Tokyo

Capital of United States is Washington, D.C.

Practical-30

Write a PHP function to change the following array's values to occur in upper or lower case.

`$color = array("a"=>"blue","b"=>"green","c"=>"red")`

1) values are in lower case : `array("a"=>"blue","b"=>"green","c"=>"red")`

```
<?php
function changeCase(array $array, string $case): array {
    $result = array();
    foreach ($array as $key => $value) {
        if ($case === 'lower') {
            $result[$key] = strtolower($value);
        } elseif ($case === 'upper') {
            $result[$key] = strtoupper($value);
        } else {
            $result[$key] = $value; // Keep the original value if
case is not 'lower' or 'upper'
        }
    }
    return $result;
}

// Example usage:
$color = array("a" => "blue", "b" => "green", "c" => "red");
$lowerCaseColor = changeCase($color, 'lower');
$upperCaseColor = changeCase($color, 'upper');

// Output
print_r($lowerCaseColor);
echo"<br>";
print_r($upperCaseColor);
?>
```

Output:

Array ([a] => blue [b] => green [c] => red)

Array ([a] => BLUE [b] => GREEN [c] => RED)
