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<?php
// Define the associative array
$people = array(
    "John" => 30,
    "Alice" => 25,
    "Bob" => 35,
    "Emily" => 28,
    "David" => 40
);

// Function to add a new person to the array
function addPerson($name, $age, &$array) {
    $array[$name] = $age;
}

// Function to find average age
function averageAge($array) {
    $sum = array_sum($array);
    $count = count($array);
    return $sum / $count;
}

// Example usage: adding a new person
addPerson("Eve", 32, $people);

// Example usage: finding average age
$avgAge = averageAge($people);
?>

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

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PHP Example</title>
</head>

<body>
    <h1>People and Their Ages</h1>
    <ul>
        <?php foreach ($people as $name => $age): ?>
            <li>
                <?php echo "$name - $age years old"; ?>
            </li>
        <?php endforeach; ?>
    </ul>
    <p>Average Age:

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        <?php echo $avgAge; ?>
    </p>
</body>

</html>
```