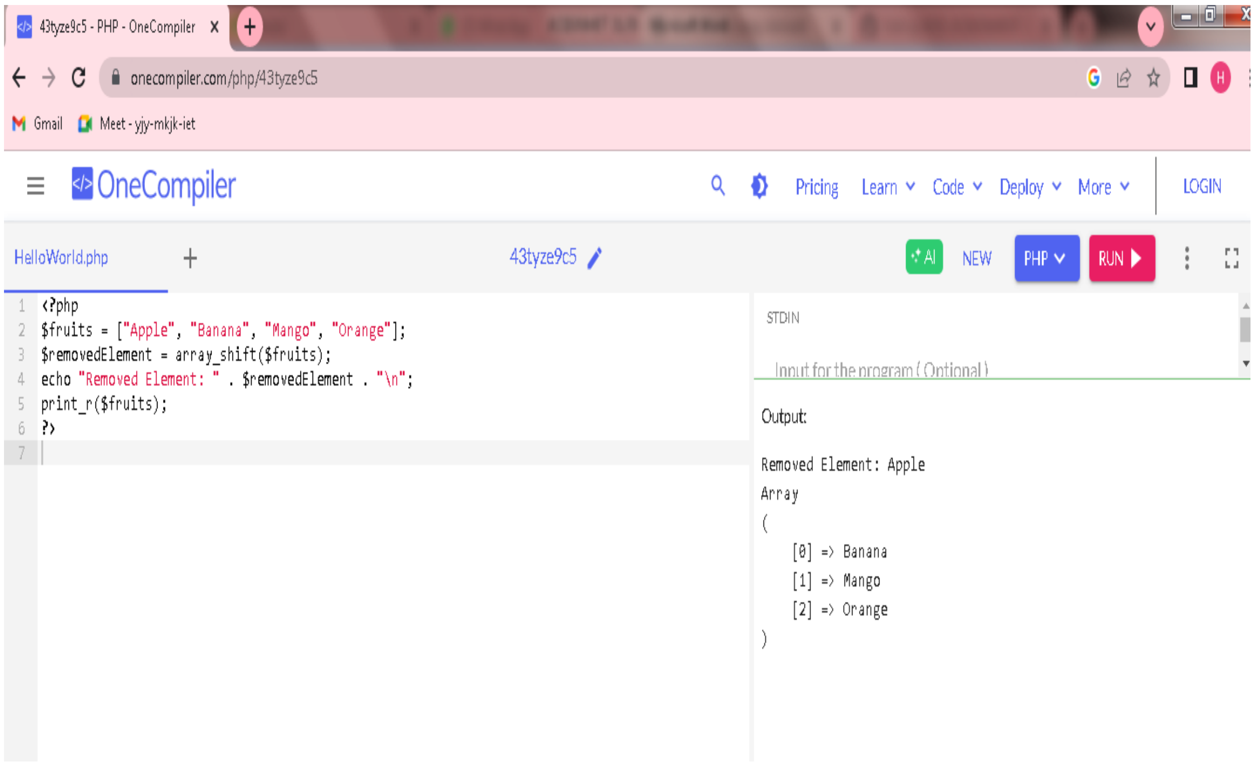
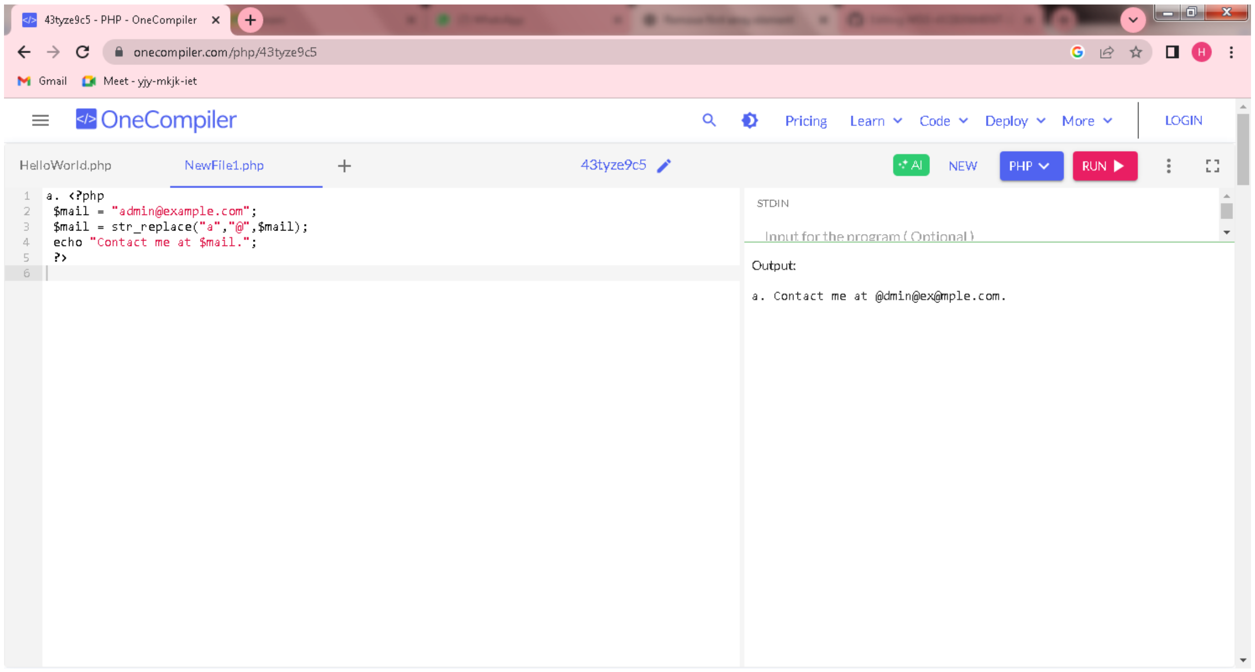
31)



```
<?php
$fruits = ["Apple", "Banana", "Mango", "Orange"];
$removedElement = array_shift($fruits);
echo "Removed Element: " . $removedElement . "\n";
print_r($fruits);
?>
```

```
Removed Element: Apple
Array
(
    [0] => Banana
    [1] => Mango
    [2] => Orange
)
```

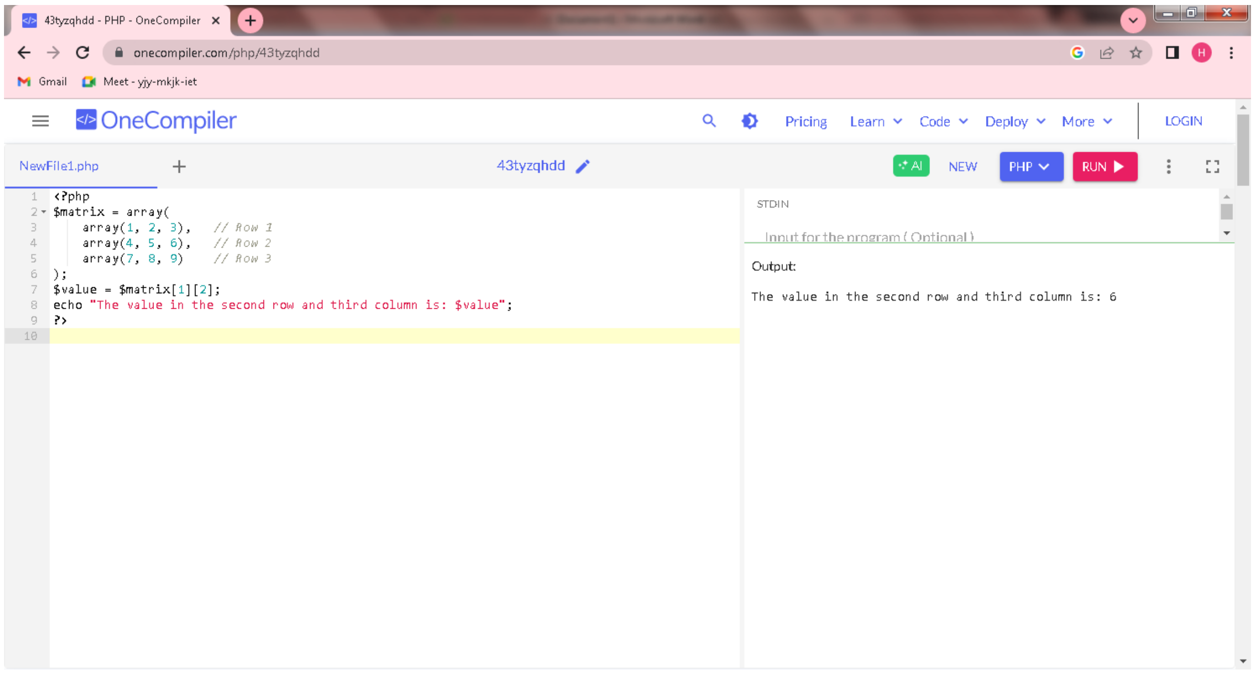
32)



```
a. <?php
 $mail = "admin@example.com";
 $mail = str_replace("a","@",$mail);
 echo "Contact me at $mail.";
 ?>
```

```
a. Contact me at @dmin@ex@mple.com.
```

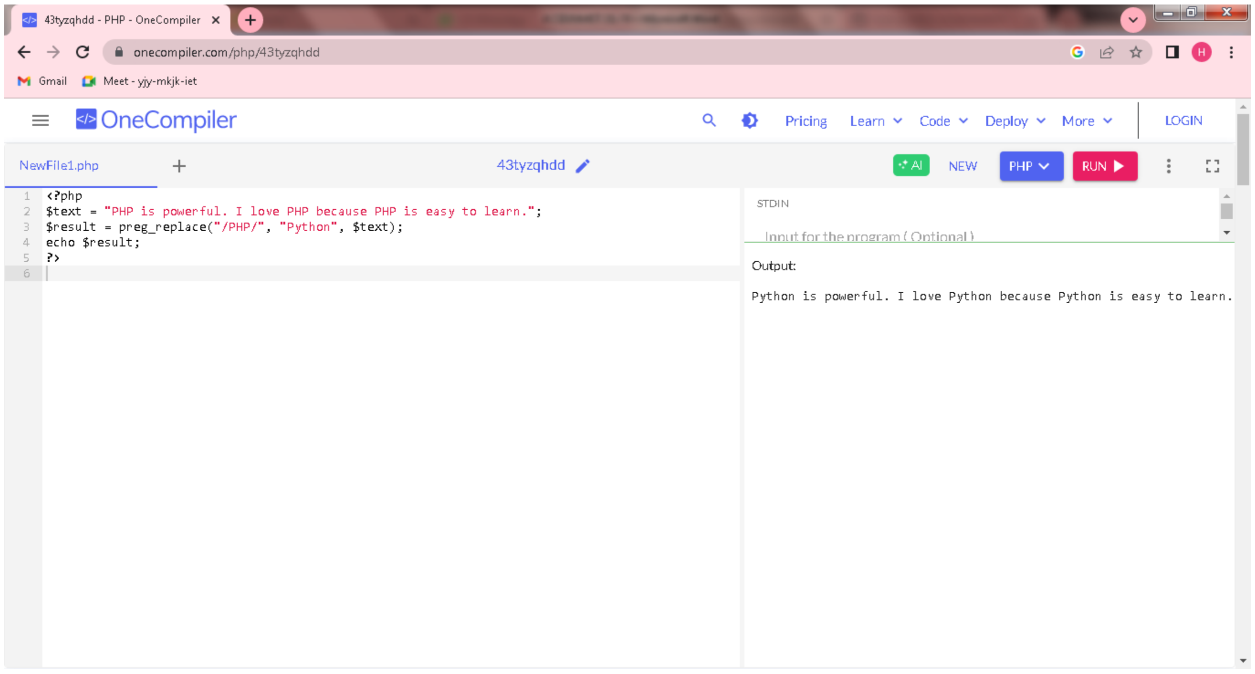
33)



```php
<?php
$matrix = array(
    array(1, 2, 3),   // Row 1
    array(4, 5, 6),   // Row 2
    array(7, 8, 9)    // Row 3
);
$value = $matrix[1][2];
echo "The value in the second row and third column is: $value";
?>
```

```
The value in the second row and third column is: 6
```

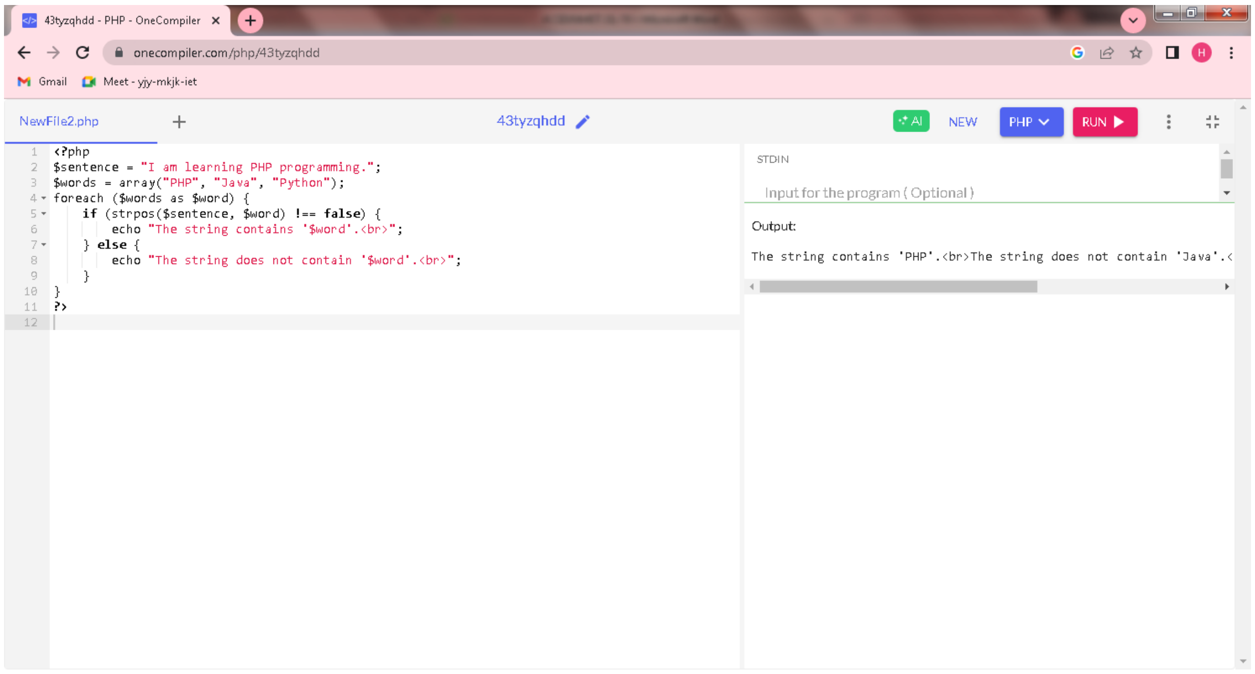
34)



```php
<?php
$text = "PHP is powerful. I love PHP because PHP is easy to learn.";
$result = preg_replace("/PHP/", "Python", $text);
echo $result;
?>
```

```
Python is powerful. I love Python because Python is easy to learn.
```

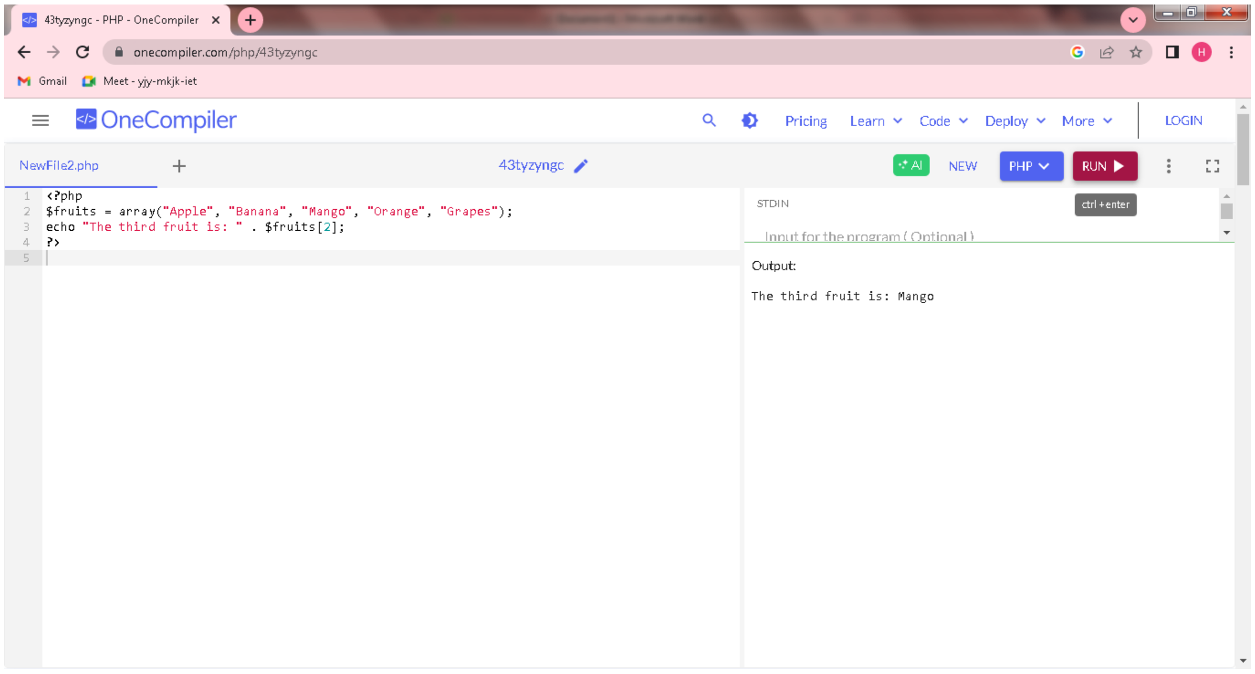
35)


43tyzqhdd - PHP - OneCompiler
onecompiler.com/php/43tyzqhdd
Gmail
Meet - yjy-mkjk-iet
NewFile2.php
43tyzqhdd
AI
NEW
PHP
RUN
STDIN
Input for the program (Optional)
Output:

```php
<?php
$sentence = "I am learning PHP programming.";
$words = array("PHP", "Java", "Python");
foreach ($words as $word) {
    if (strpos($sentence, $word) !== false) {
        echo "The string contains '$word'.<br>";
    } else {
        echo "The string does not contain '$word'.<br>";
    }
}
?>
```

```
The string contains 'PHP'.<br>The string does not contain 'Java'.<
```

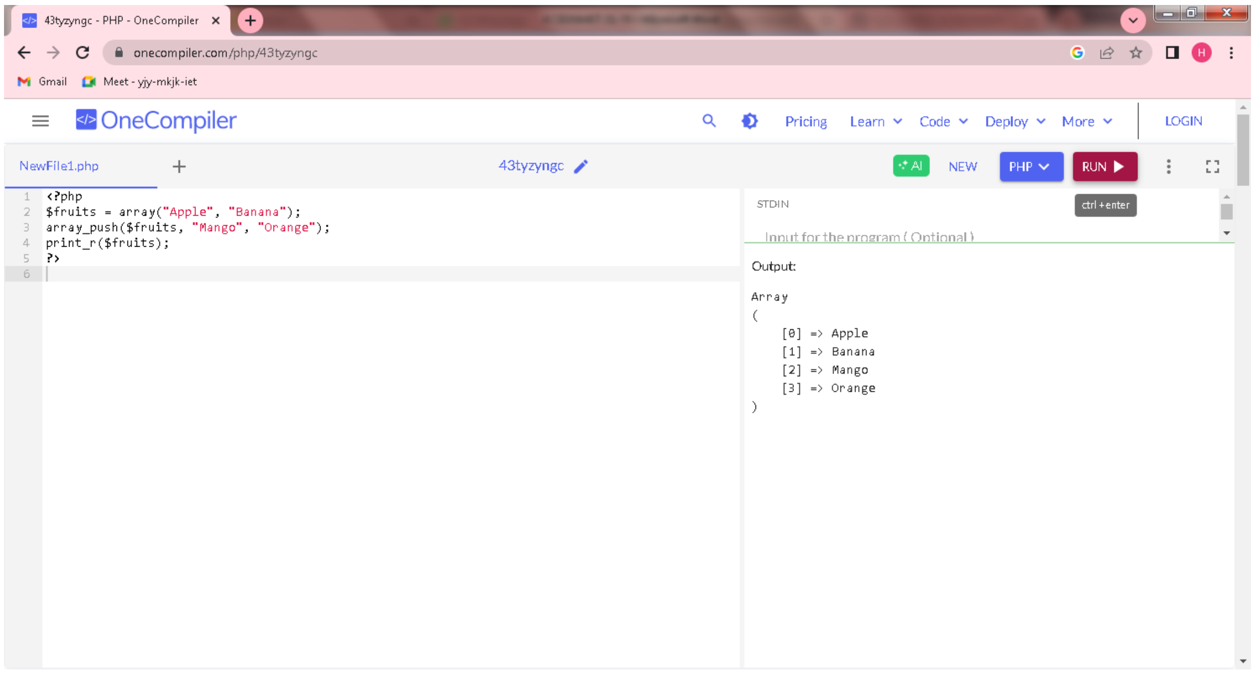
36)



```php
<?php
$fruits = array("Apple", "Banana", "Mango", "Orange", "Grapes");
echo "The third fruit is: " . $fruits[2];
?>
```

```
The third fruit is: Mango
```

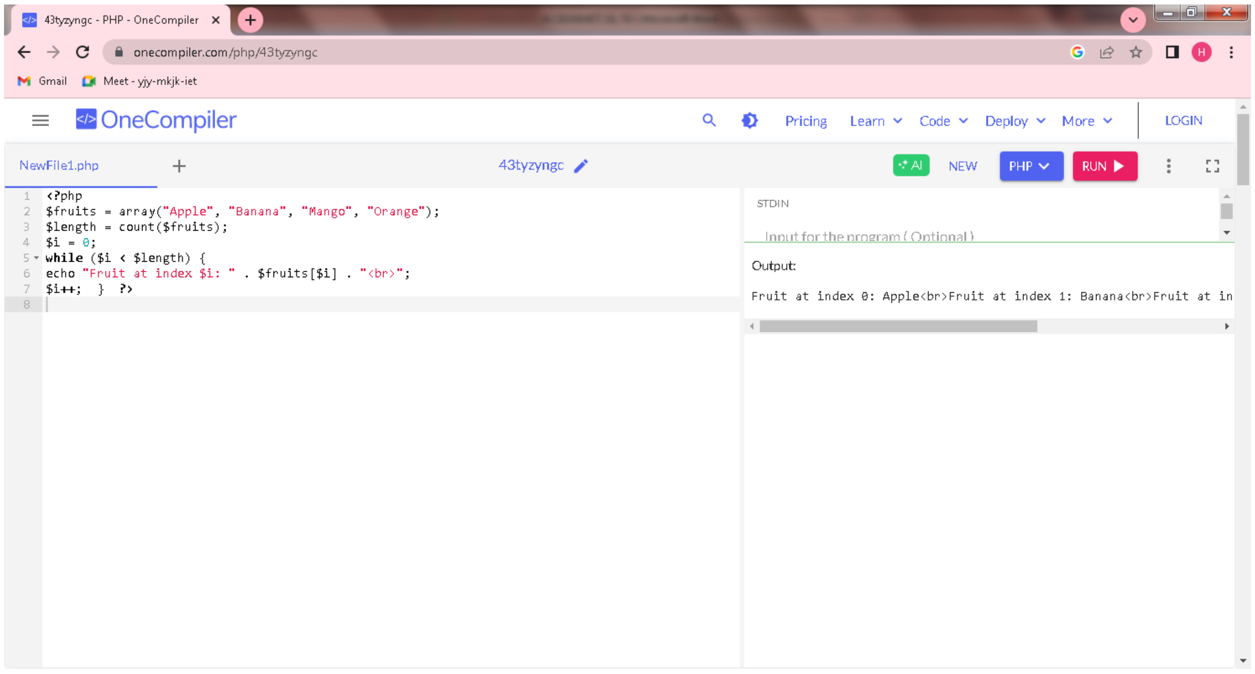
37)



```php
<?php
$fruits = array("Apple", "Banana");
array_push($fruits, "Mango", "Orange");
print_r($fruits);
?>
```

```
Array
(
    [0] => Apple
    [1] => Banana
    [2] => Mango
    [3] => Orange
)
```

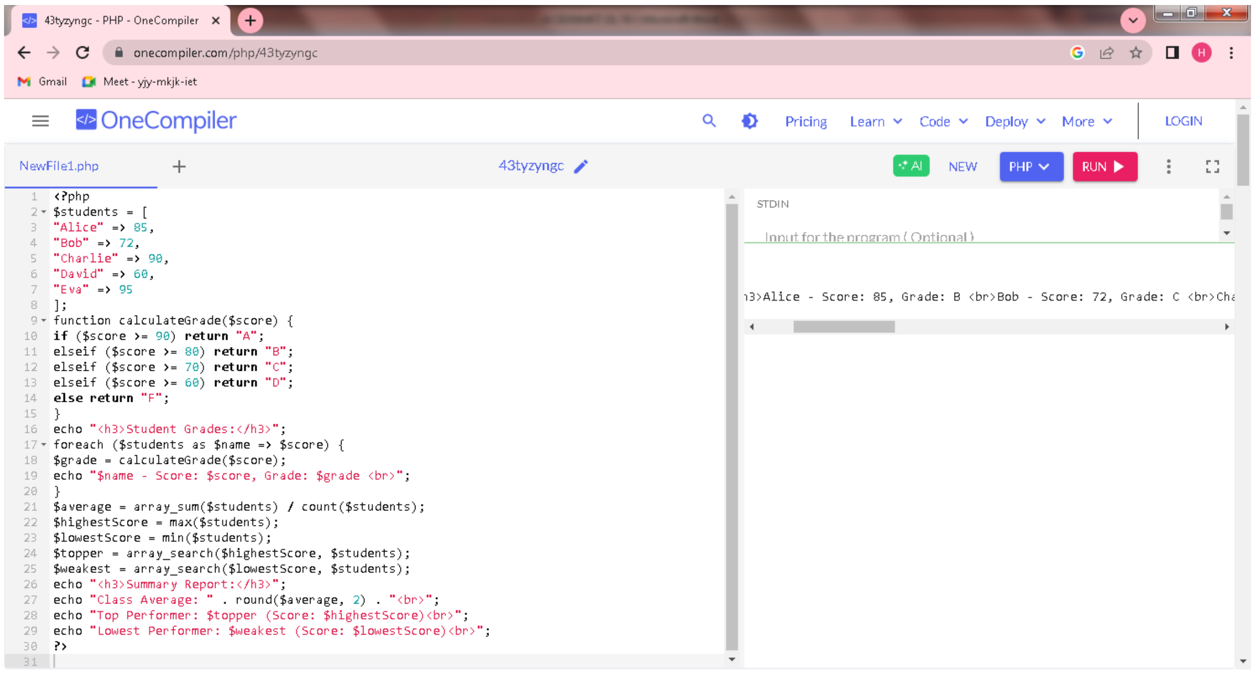
38)



```php
<?php
$fruits = array("Apple", "Banana", "Mango", "Orange");
$length = count($fruits);
$i = 0;
while ($i < $length) {
echo "Fruit at index $i: " . $fruits[$i] . "<br>";
$i++;  }  ?>
```

```
Fruit at index 0: Apple<br>Fruit at index 1: Banana<br>Fruit at in
```

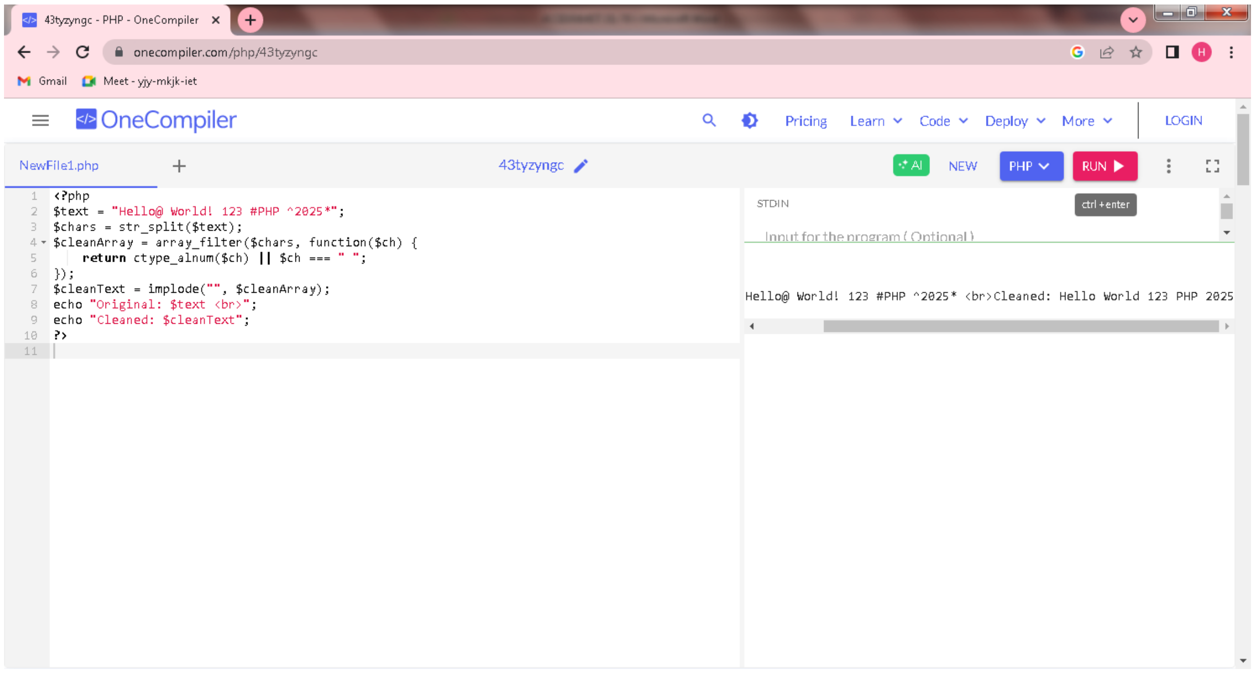
39)



```php
<?php
$students = [
"Alice" => 85,
"Bob" => 72,
"Charlie" => 90,
"David" => 60,
"Eva" => 95
];
function calculateGrade($score) {
if ($score >= 90) return "A";
elseif ($score >= 80) return "B";
elseif ($score >= 70) return "C";
elseif ($score >= 60) return "D";
else return "F";
}
echo "<h3>Student Grades:</h3>";
foreach ($students as $name => $score) {
$grade = calculateGrade($score);
echo "$name - Score: $score, Grade: $grade <br>";
}
$average = array_sum($students) / count($students);
$highestScore = max($students);
$lowestScore = min($students);
$topper = array_search($highestScore, $students);
$weakest = array_search($lowestScore, $students);
echo "<h3>Summary Report:</h3>";
echo "Class Average: " . round($average, 2) . "<br>";
echo "Top Performer: $topper (Score: $highestScore)<br>";
echo "Lowest Performer: $weakest (Score: $lowestScore)<br>";
?>
```

```
13>Alice - Score: 85, Grade: B <br>Bob - Score: 72, Grade: C <br>Cha
```

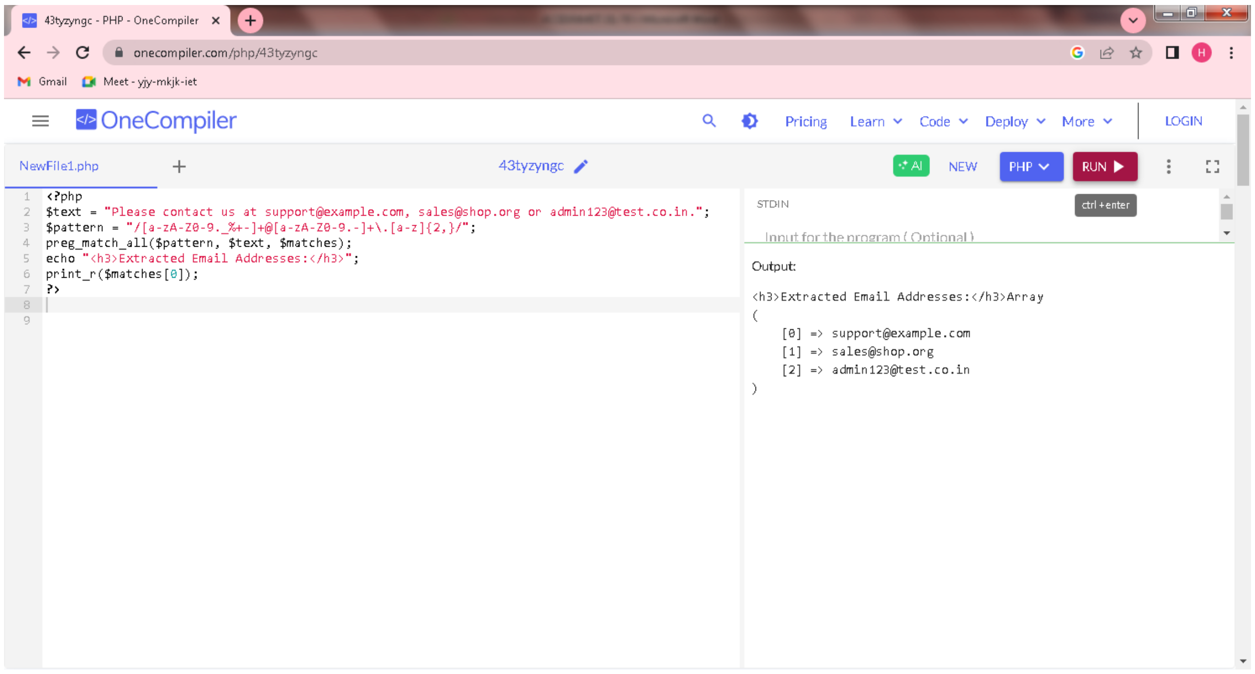
40)



```php
<?php
$text = "Hello@ World! 123 #PHP ^2025*";
$chars = str_split($text);
$cleanArray = array_filter($chars, function($ch) {
    return ctype_alnum($ch) || $ch === " ";
});
$cleanText = implode("", $cleanArray);
echo "Original: $text <br>";
echo "Cleaned: $cleanText";
?>
```

```
Hello@ World! 123 #PHP ^2025* <br>Cleaned: Hello World 123 PHP 2025
```

41)

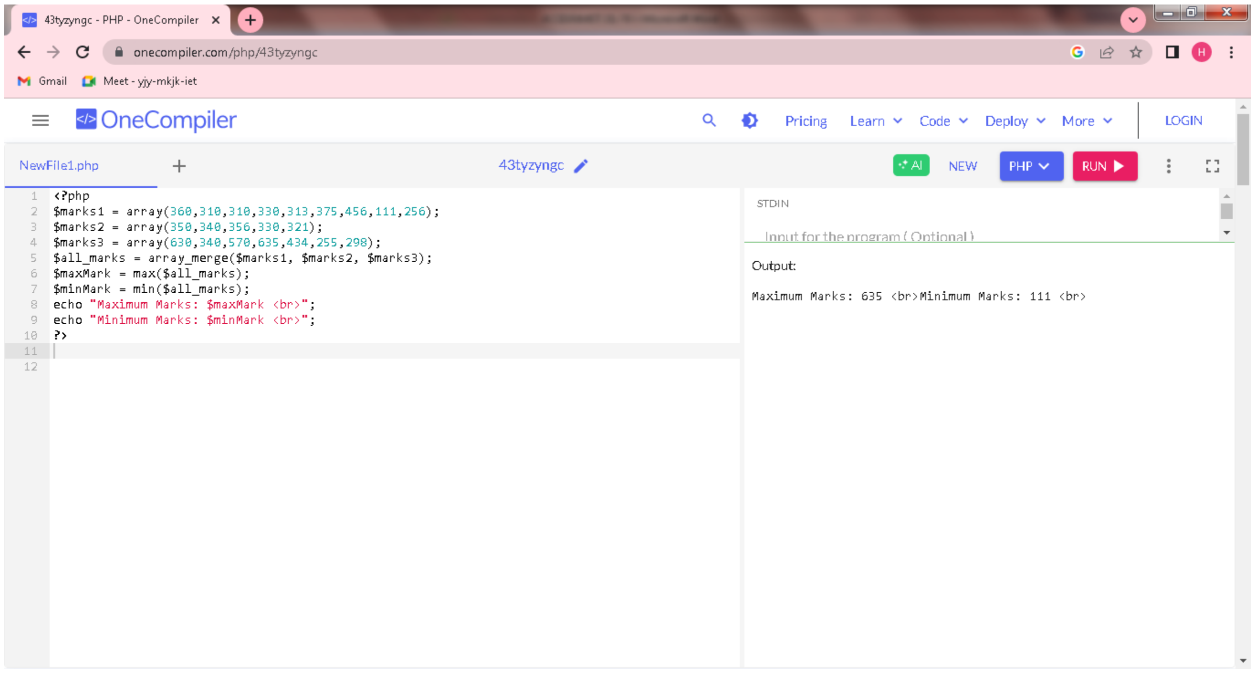


```php
<?php
$text = "Please contact us at support@example.com, sales@shop.org or admin123@test.co.in.";
$pattern = "/[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-z]{2,}/";
preg_match_all($pattern, $text, $matches);
echo "<h3>Extracted Email Addresses:</h3>";
print_r($matches[0]);
?>
```

Output:

```
<h3>Extracted Email Addresses:</h3>Array
(
    [0] => support@example.com
    [1] => sales@shop.org
    [2] => admin123@test.co.in
)
```

42)

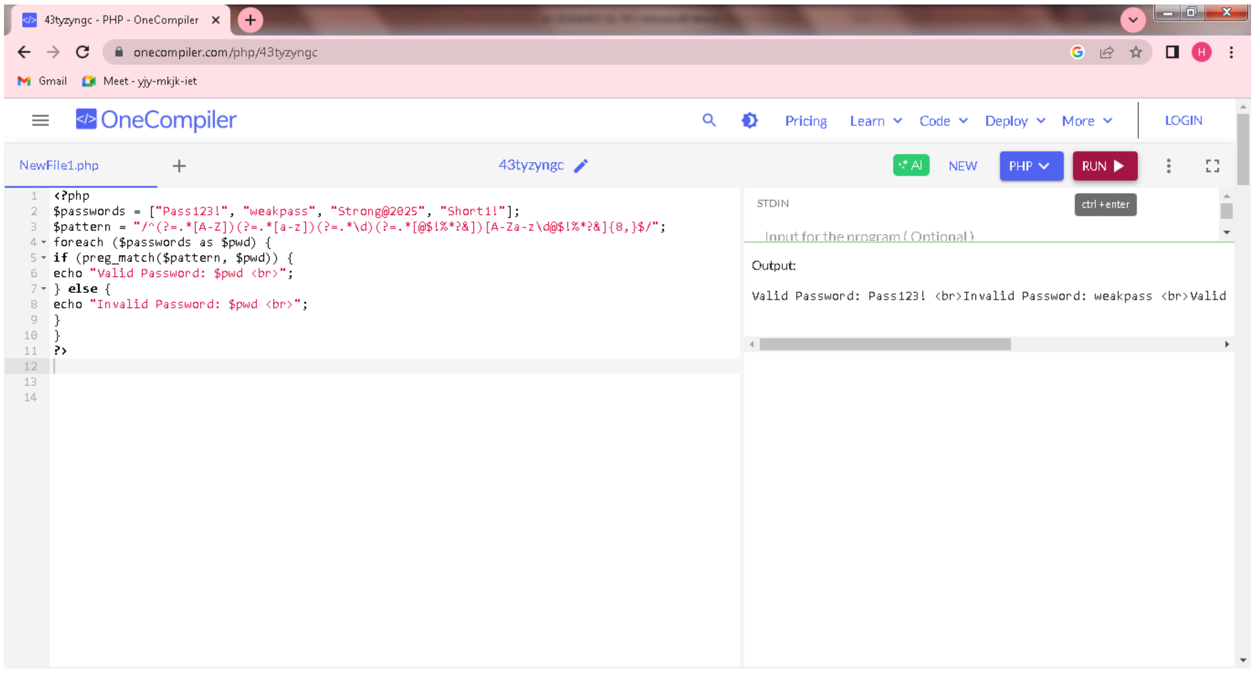


```php
<?php
$marks1 = array(360,310,310,330,313,375,456,111,256);
$marks2 = array(350,340,356,330,321);
$marks3 = array(630,340,570,635,434,255,298);
$all_marks = array_merge($marks1, $marks2, $marks3);
$maxMark = max($all_marks);
$minMark = min($all_marks);
echo "Maximum Marks: $maxMark <br>";
echo "Minimum Marks: $minMark <br>";
?>
```

Output:

```
Maximum Marks: 635 <br>Minimum Marks: 111 <br>
```

43)

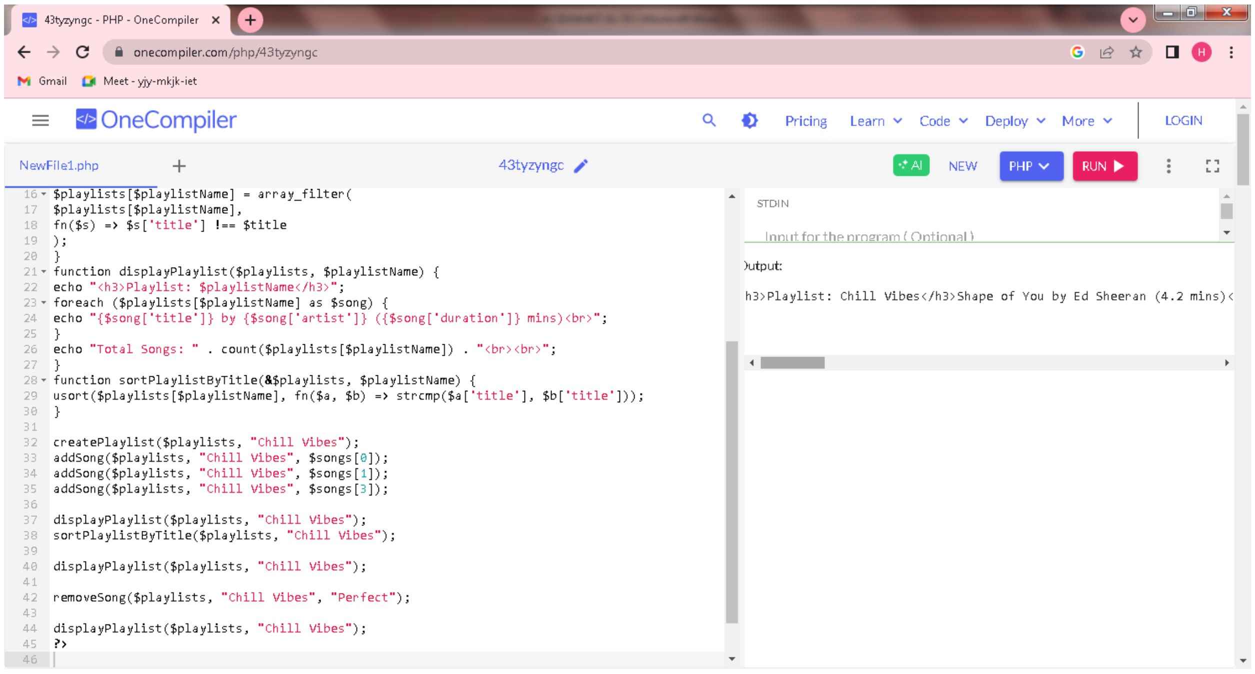


```php
<?php
$passwords = ["Pass123!", "weakpass", "Strong@2025", "Short1!"];
$pattern = "/^(?=.*[A-Z])(?=.*[a-z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}$/";
foreach ($passwords as $pwd) {
if (preg_match($pattern, $pwd)) {
echo "Valid Password: $pwd <br>";
} else {
echo "Invalid Password: $pwd <br>";
}
}
?>
```

Output:

```
Valid Password: Pass123! <br>Invalid Password: weakpass <br>Valid
```

44)

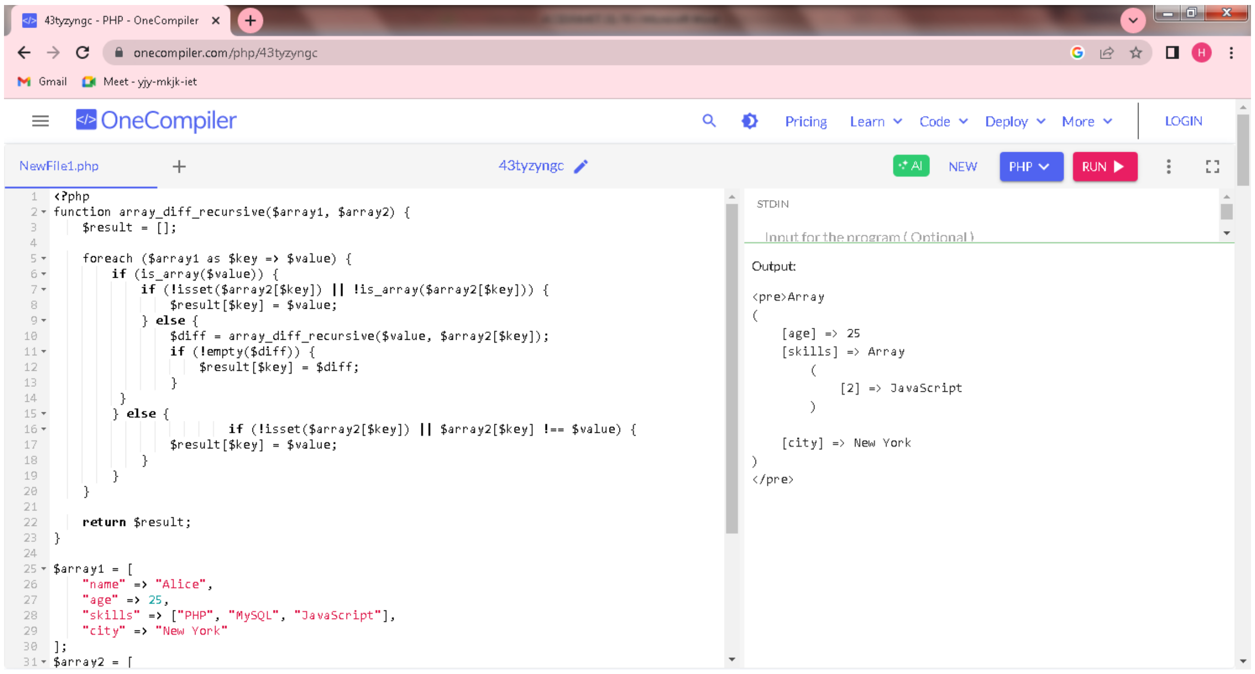


```php
$playlists[$playlistName] = array_filter(
$playlists[$playlistName],
fn($s) => $s['title'] !== $title
);
}
function displayPlaylist($playlists, $playlistName) {
echo "<h3>Playlist: $playlistName</h3>";
foreach ($playlists[$playlistName] as $song) {
echo "{$song['title']} by {$song['artist']} ({$song['duration']} mins)<br>";
}
echo "Total Songs: " . count($playlists[$playlistName]) . "<br><br>";
}
function sortPlaylistByTitle(&$playlists, $playlistName) {
usort($playlists[$playlistName], fn($a, $b) => strcmp($a['title'], $b['title']));
}

createPlaylist($playlists, "Chill Vibes");
addSong($playlists, "Chill Vibes", $songs[0]);
addSong($playlists, "Chill Vibes", $songs[1]);
addSong($playlists, "Chill Vibes", $songs[3]);

displayPlaylist($playlists, "Chill Vibes");
sortPlaylistByTitle($playlists, "Chill Vibes");

displayPlaylist($playlists, "Chill Vibes");

removeSong($playlists, "Chill Vibes", "Perfect");

displayPlaylist($playlists, "Chill Vibes");
?>
```

)utput:

```
h3>Playlist: Chill Vibes</h3>Shape of You by Ed Sheeran (4.2 mins)<
```

45)

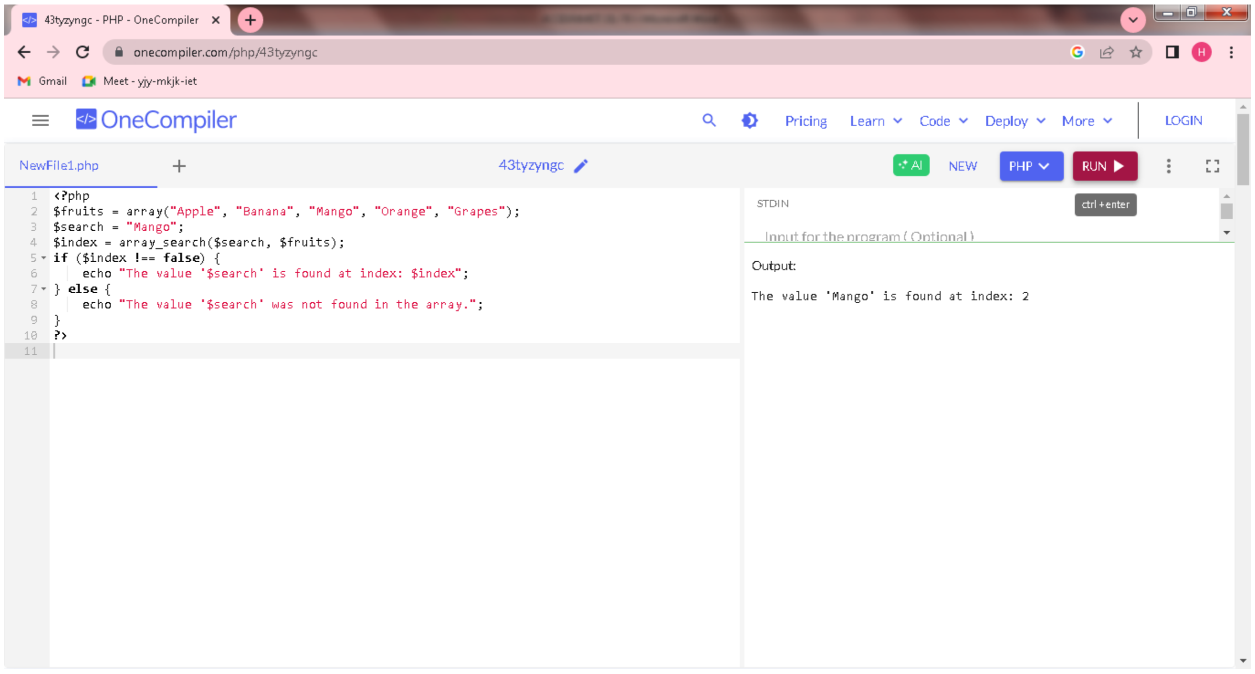


```php
<?php
function array_diff_recursive($array1, $array2) {
    $result = [];

    foreach ($array1 as $key => $value) {
        if (is_array($value)) {
            if (!isset($array2[$key]) || !is_array($array2[$key])) {
                $result[$key] = $value;
            } else {
                $diff = array_diff_recursive($value, $array2[$key]);
                if (!empty($diff)) {
                    $result[$key] = $diff;
                }
            }
        } else {
                        if (!isset($array2[$key]) || $array2[$key] !== $value) {
                $result[$key] = $value;
            }
        }
    }

    return $result;
}

$array1 = [
    "name" => "Alice",
    "age" => 25,
    "skills" => ["PHP", "MySQL", "JavaScript"],
    "city" => "New York"
];
$array2 = [
```

Output:

```
<pre>Array
(
    [age] => 25
    [skills] => Array
        (
            [2] => JavaScript
        )

    [city] => New York
)
</pre>
```

46)

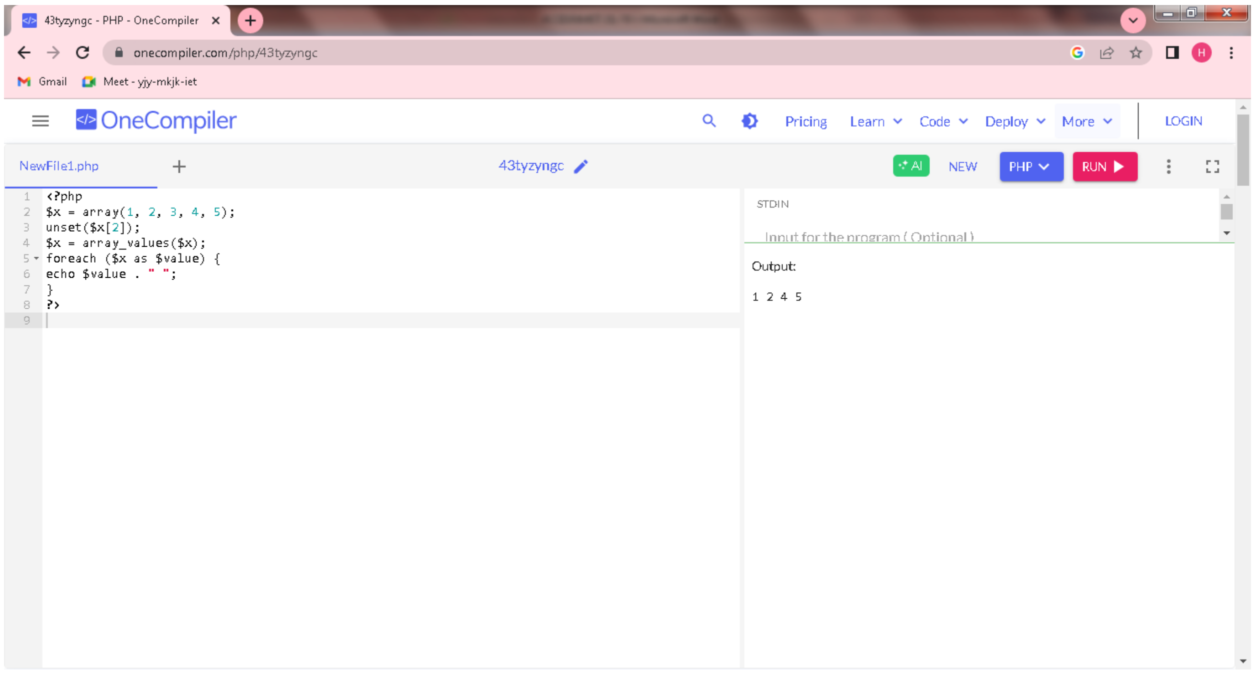


```php
<?php
$fruits = array("Apple", "Banana", "Mango", "Orange", "Grapes");
$search = "Mango";
$index = array_search($search, $fruits);
if ($index !== false) {
    echo "The value '$search' is found at index: $index";
} else {
    echo "The value '$search' was not found in the array.";
}
?>
```

Output:

```
The value 'Mango' is found at index: 2
```

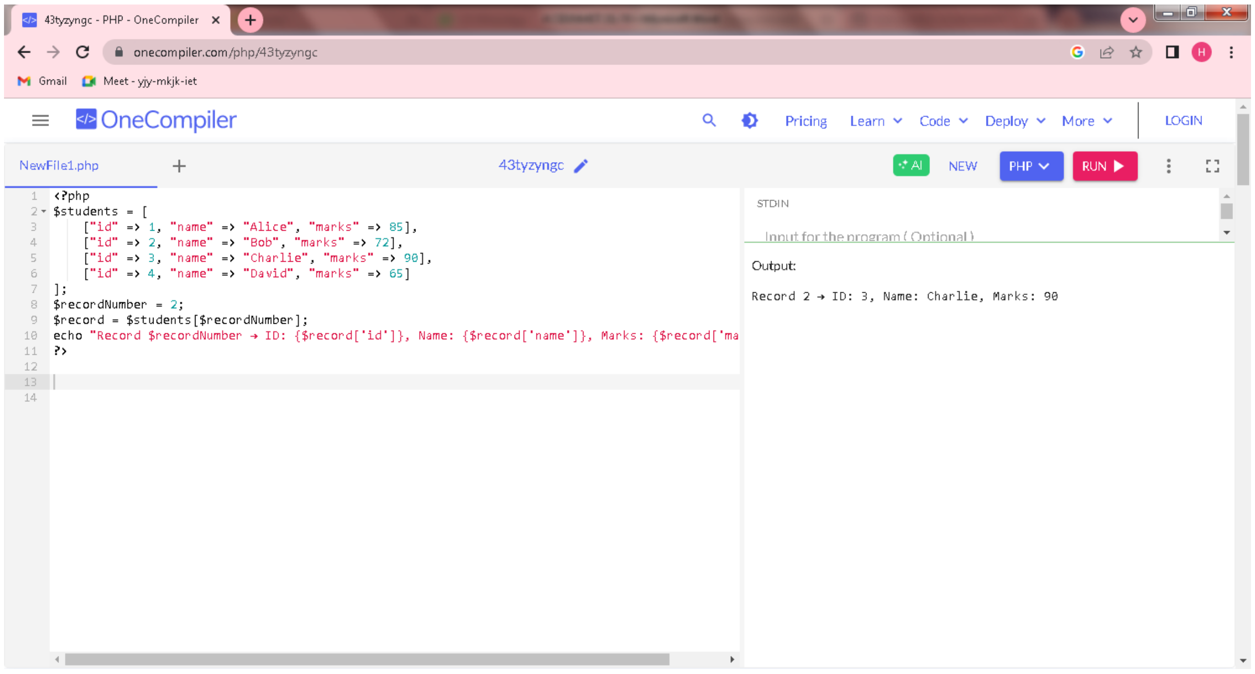
47)



```php
<?php
$x = array(1, 2, 3, 4, 5);
unset($x[2]);
$x = array_values($x);
foreach ($x as $value) {
echo $value . " ";
}
?>
```

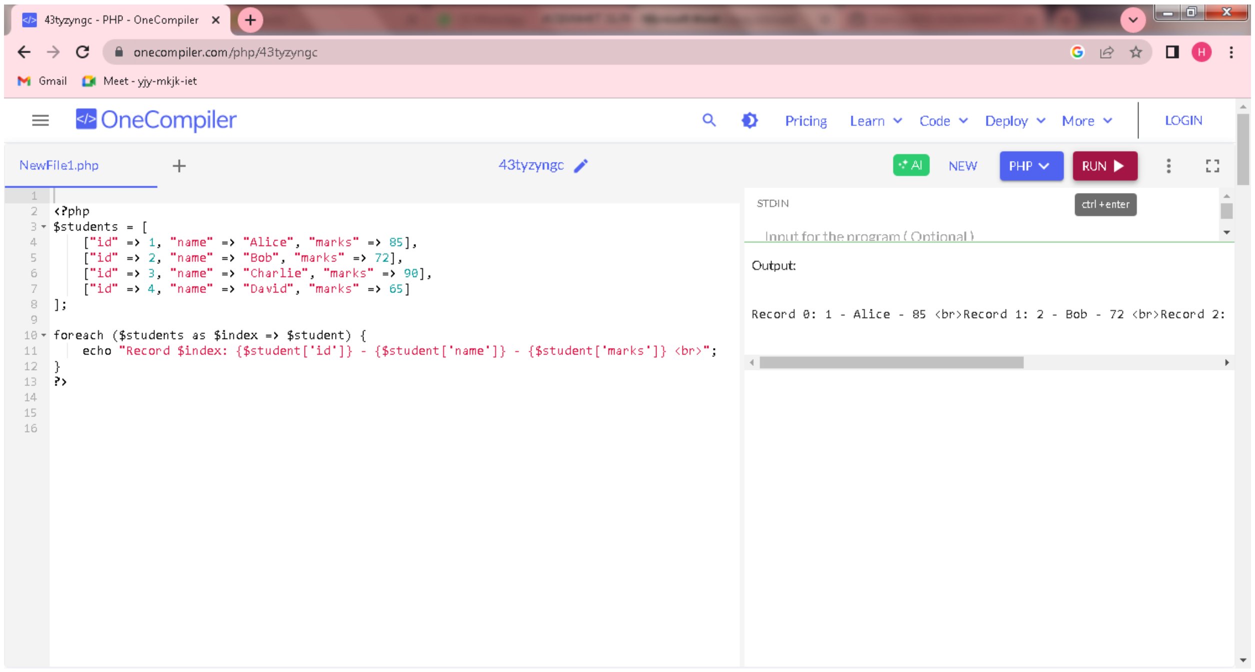
```
1 2 4 5
```

48)



```php
<?php
$students = [
    ["id" => 1, "name" => "Alice", "marks" => 85],
    ["id" => 2, "name" => "Bob", "marks" => 72],
    ["id" => 3, "name" => "Charlie", "marks" => 90],
    ["id" => 4, "name" => "David", "marks" => 65]
];
$recordNumber = 2;
$record = $students[$recordNumber];
echo "Record $recordNumber → ID: {$record['id']}, Name: {$record['name']}, Marks: {$record['ma
?>
```

```
Record 2 → ID: 3, Name: Charlie, Marks: 90
```

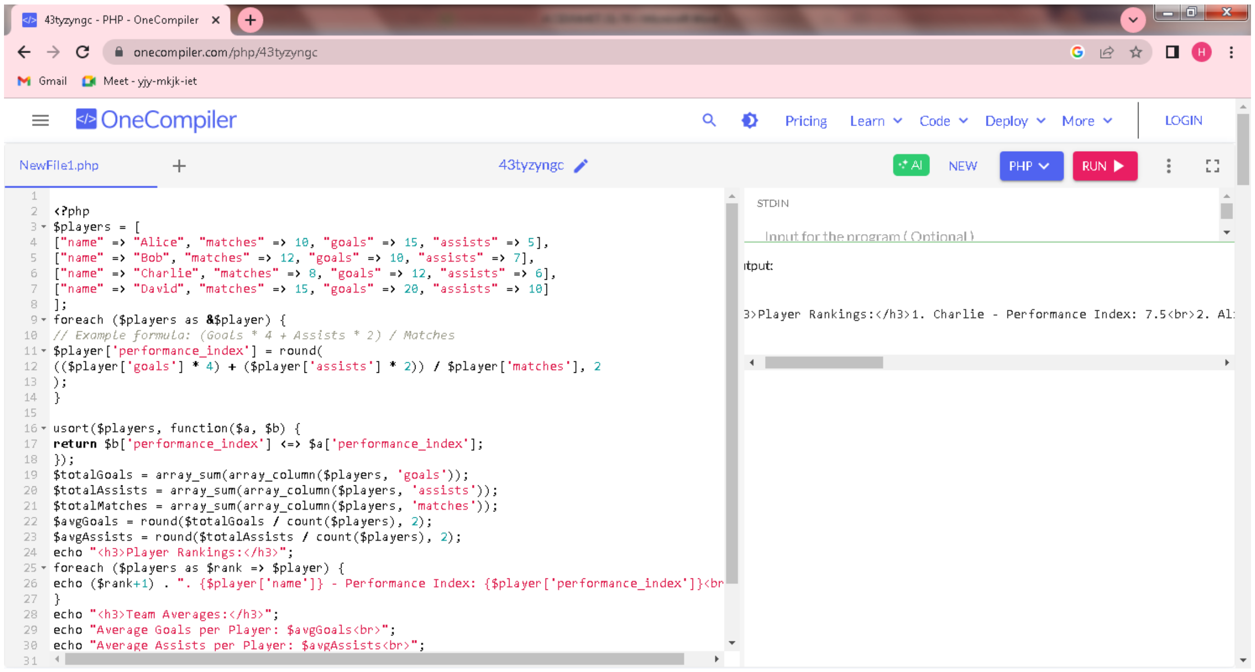


```php

<?php
$students = [
    ["id" => 1, "name" => "Alice", "marks" => 85],
    ["id" => 2, "name" => "Bob", "marks" => 72],
    ["id" => 3, "name" => "Charlie", "marks" => 90],
    ["id" => 4, "name" => "David", "marks" => 65]
];

foreach ($students as $index => $student) {
    echo "Record $index: {$student['id']} - {$student['name']} - {$student['marks']} <br>";
}
?>
```

Output:

```
Record 0: 1 - Alice - 85 <br>Record 1: 2 - Bob - 72 <br>Record 2:
```

49)

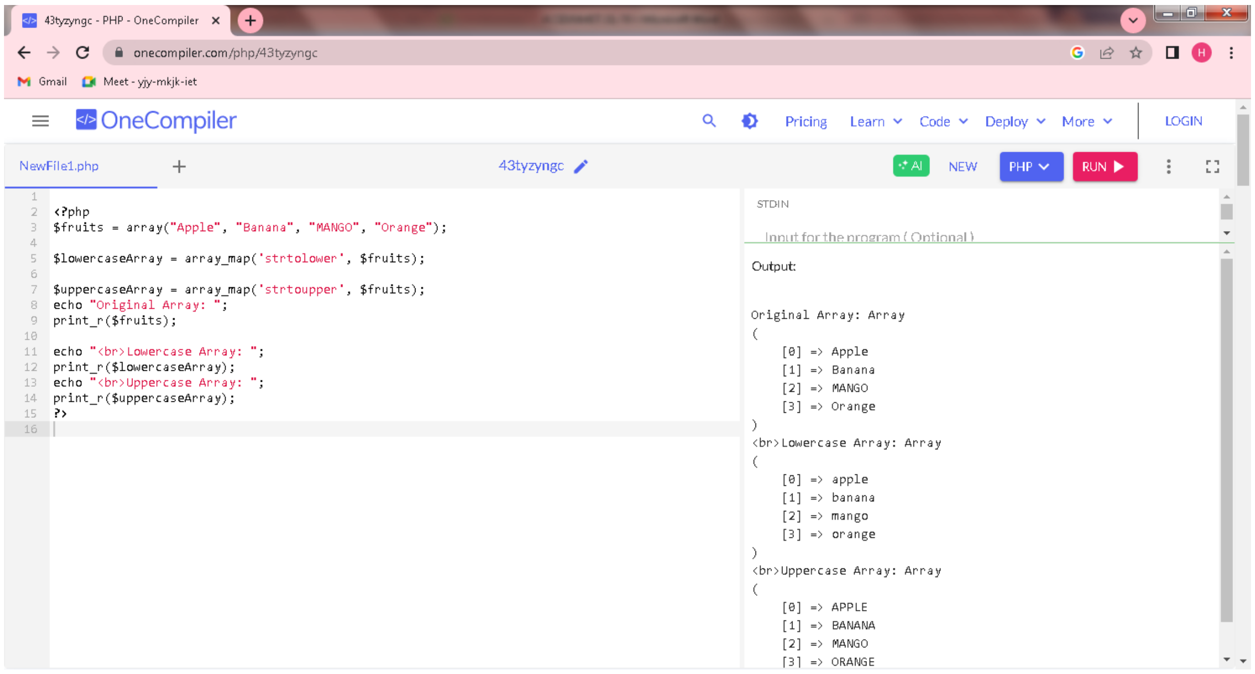


```php

<?php
$players = [
["name" => "Alice", "matches" => 10, "goals" => 15, "assists" => 5],
["name" => "Bob", "matches" => 12, "goals" => 10, "assists" => 7],
["name" => "Charlie", "matches" => 8, "goals" => 12, "assists" => 6],
["name" => "David", "matches" => 15, "goals" => 20, "assists" => 10]
];
foreach ($players as &$player) {
// Example formula: (Goals * 4 + Assists * 2) / Matches
$player['performance_index'] = round(
(($player['goals'] * 4) + ($player['assists'] * 2)) / $player['matches'], 2
);
}

usort($players, function($a, $b) {
return $b['performance_index'] <=> $a['performance_index'];
});
$totalGoals = array_sum(array_column($players, 'goals'));
$totalAssists = array_sum(array_column($players, 'assists'));
$totalMatches = array_sum(array_column($players, 'matches'));
$avgGoals = round($totalGoals / count($players), 2);
$avgAssists = round($totalAssists / count($players), 2);
echo "<h3>Player Rankings:</h3>";
foreach ($players as $rank => $player) {
echo ($rank+1) . ". {$player['name']} - Performance Index: {$player['performance_index']}<br
}
echo "<h3>Team Averages:</h3>";
echo "Average Goals per Player: $avgGoals<br>";
echo "Average Assists per Player: $avgAssists<br>";
```

ıtput:

```
3>Player Rankings:</h3>1. Charlie - Performance Index: 7.5<br>2. Al
```

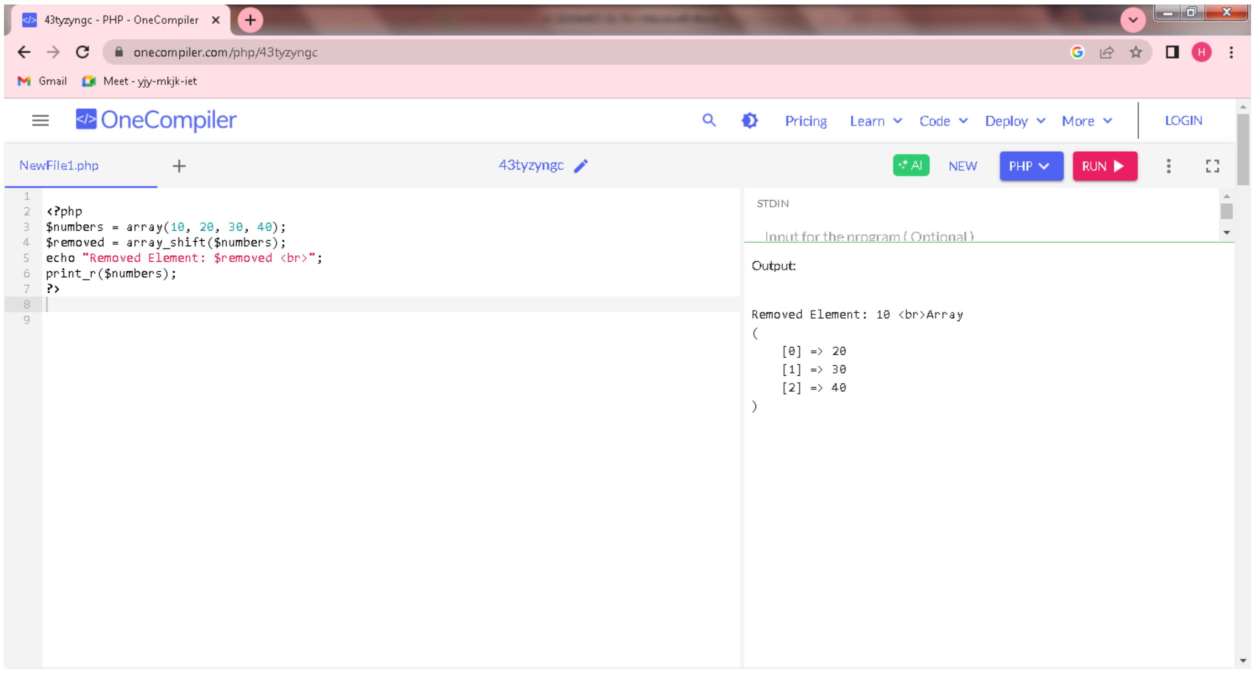
50)



```php
<?php
$fruits = array("Apple", "Banana", "MANGO", "Orange");

$lowercaseArray = array_map('strtolower', $fruits);

$uppercaseArray = array_map('strtoupper', $fruits);
echo "Original Array: ";
print_r($fruits);

echo "<br>Lowercase Array: ";
print_r($lowercaseArray);
echo "<br>Uppercase Array: ";
print_r($uppercaseArray);
?>
```

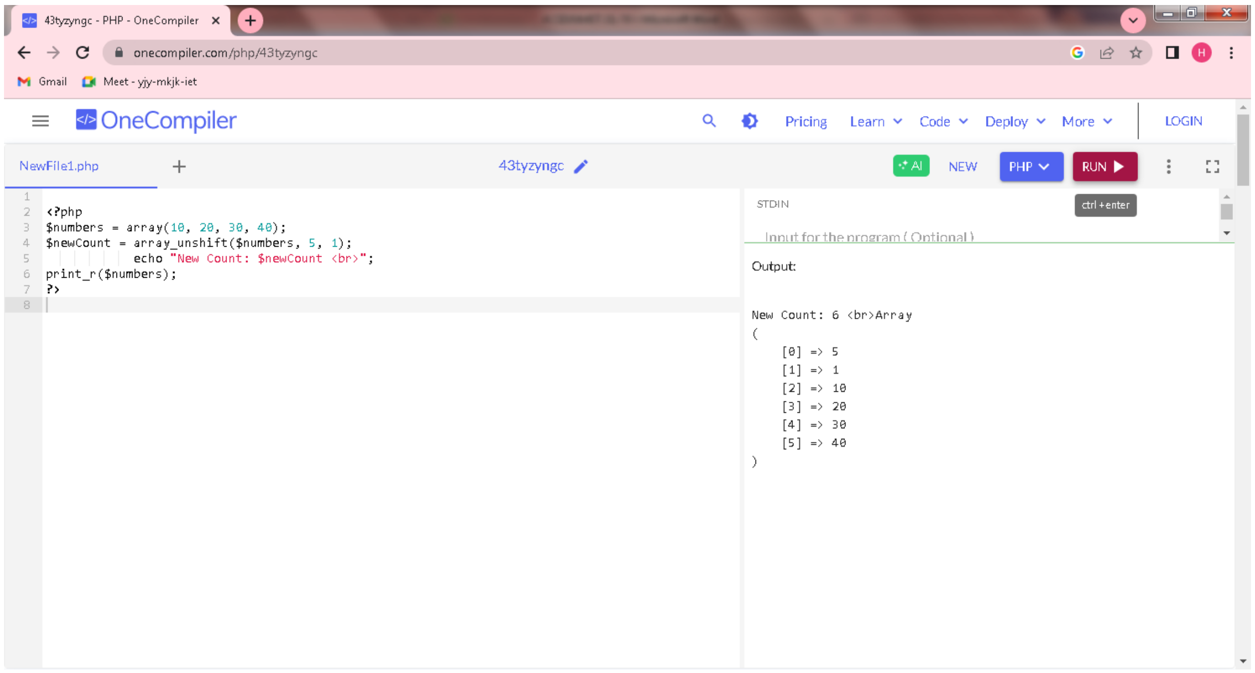
```
Original Array: Array
(
    [0] => Apple
    [1] => Banana
    [2] => MANGO
    [3] => Orange
)
<br>Lowercase Array: Array
(
    [0] => apple
    [1] => banana
    [2] => mango
    [3] => orange
)
<br>Uppercase Array: Array
(
    [0] => APPLE
    [1] => BANANA
    [2] => MANGO
    [3] => ORANGE
```

51)



```php
<?php
$numbers = array(10, 20, 30, 40);
$removed = array_shift($numbers);
echo "Removed Element: $removed <br>";
print_r($numbers);
?>
```

```
Removed Element: 10 <br>Array
(
    [0] => 20
    [1] => 30
    [2] => 40
)
```

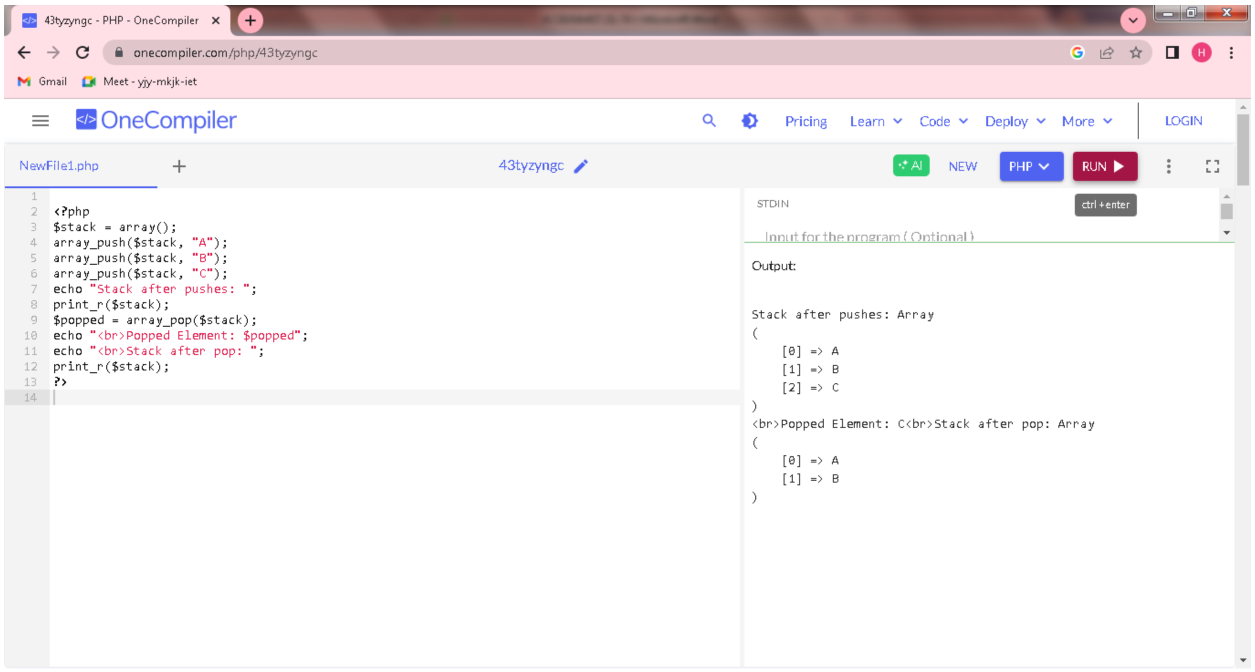


```
<?php
$numbers = array(10, 20, 30, 40);
$newCount = array_unshift($numbers, 5, 1);
            echo "New Count: $newCount <br>";
print_r($numbers);
?>
```

Output:

```
New Count: 6 <br>Array
(
    [0] => 5
    [1] => 1
    [2] => 10
    [3] => 20
    [4] => 30
    [5] => 40
)
```

52)



```
<?php
$stack = array();
array_push($stack, "A");
array_push($stack, "B");
array_push($stack, "C");
echo "Stack after pushes: ";
print_r($stack);
$popped = array_pop($stack);
echo "<br>Popped Element: $popped";
echo "<br>Stack after pop: ";
print_r($stack);
?>
```

Output:

```
Stack after pushes: Array
(
    [0] => A
    [1] => B
    [2] => C
)
<br>Popped Element: C<br>Stack after pop: Array
(
    [0] => A
    [1] => B
)
```

53)