OUTPUT

1.


```php
1   <?php
2   $capital = 67;
3   print("Variable capital is $capital");
4   print("Variable CaPiTaL is $CaPiTaL");
5   ?>
```

Output:
```
Variable capital is 67
Warning: Undefined variable $CaPiTaL in /tmp/9l6h4p4EUT/main.php on line 4
Variable CaPiTaL is

=== Code Execution Successful ===
```
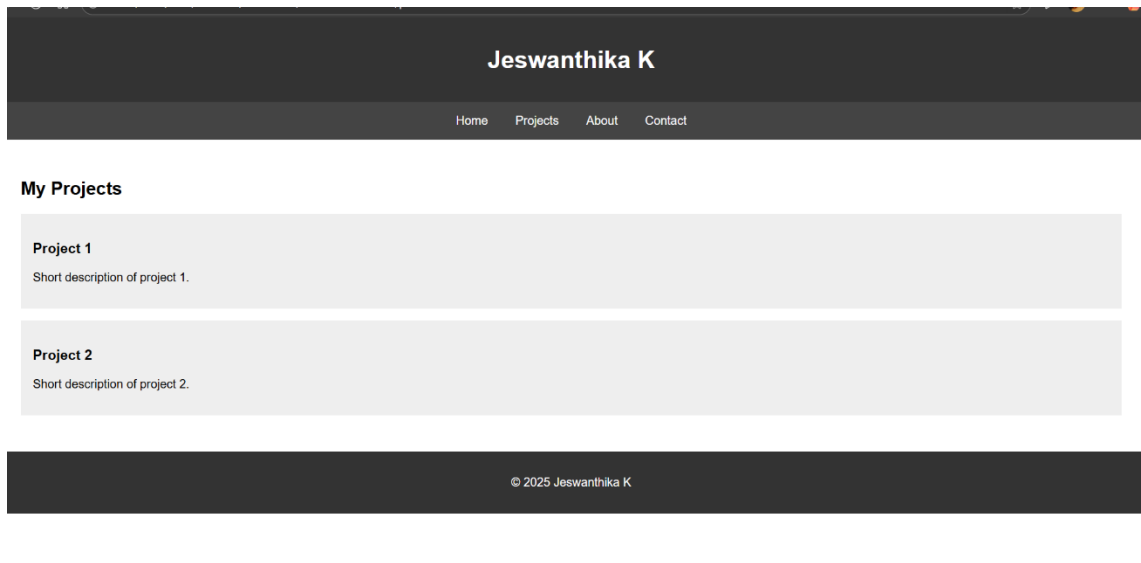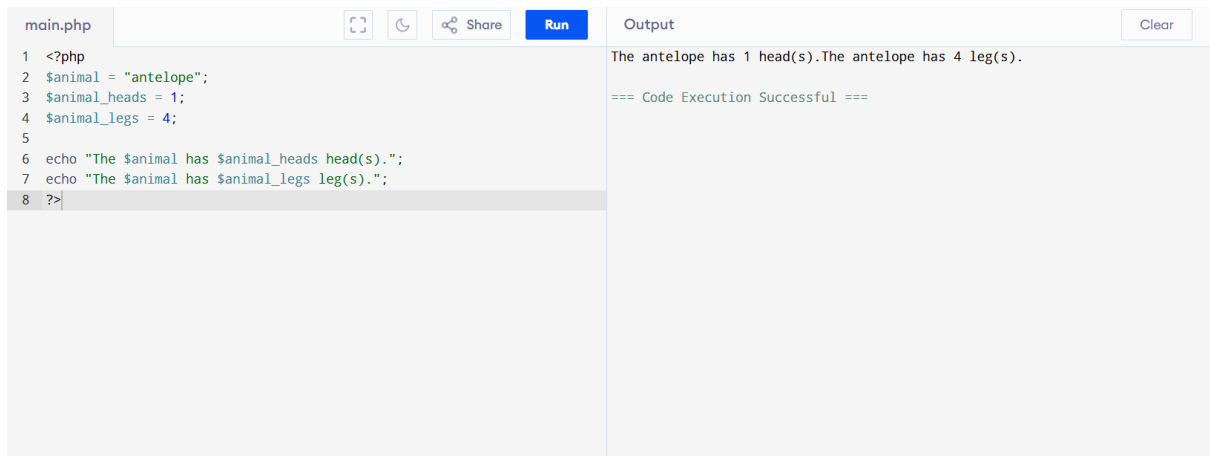
2.

	1	2	3
1	1	0.5	0.33
2	2	1	0.67
3	3	1.5	1

3.

4.

5.

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Purchase Total Calculator</title>
5  </head>
6  <body>
7  <h2>Enter Price and Quantity</h2>
8  <form method="post">
9    <label>Item 1 - Price:</label>
10   <input type="number" name="price1" step="0.01" required>
11   Quantity: <input type="number" name="qty1" required><br><br>
12   <label>Item 2 - Price:</label>
13   <input type="number" name="price2" step="0.01" required>
14   Quantity: <input type="number" name="qty2" required><br><br>
15   <label>Item 3 - Price:</label>
16   <input type="number" name="price3" step="0.01" required>
17   Quantity: <input type="number" name="qty3" required><br><br>
18   <input type="submit" value="Calculate Total">
19 </form>
20 <?php
21 if ($_SERVER["REQUEST_METHOD"] == "POST") {
22   $p1 = $_POST["price1"];
23   $q1 = $_POST["qty1"];
24   $p2 = $_POST["price2"];
25   $q2 = $_POST["qty2"];
26   $p3 = $_POST["price3"];
27   $q3 = $_POST["qty3"];
28   $subtotal = ($p1 * $q1) + ($p2 * $q2) + ($p3 * $q3);
29   $tax = $subtotal * 0.10;
30   $total = $subtotal + $tax;
31   echo "<h3>Results:</h3>";
32   echo "Subtotal: ₹" . number_format($subtotal, 2) . "<br>";
33   echo "Tax (10%): ₹" . number_format($tax, 2) . "<br>";
34   echo "Total: ₹" . number_format($total, 2);
35 }
36 ?>
37 </body>
38 </html>
39
```

Enter Price and Quantity

Item 1 - Price: [ ]   Quantity: [ ]

Item 2 - Price: [ ]   Quantity: [ ]

Item 3 - Price: [ ]   Quantity: [ ]

[Calculate Total]

Results:"; echo "Subtotal: ₹" . number_format($subtotal, 2) . " "; echo "Tax (10%): ₹" . number_format($tax, 2) . " "; echo "Total: ₹" . number_format($total, 2); } ?>

6.

```php
1  <?php
2  session_start();
3  if ($_SERVER["REQUEST_METHOD"] == "POST") {
4      $name = $_POST['name'];
5      $_SESSION['session_name'] = $name;
6      header("Location: ".$_SERVER['PHP_SELF']."?name=".urlencode
           ($name));
7      exit();
8  }
9  $get_name = isset($_GET['name']) ? $_GET['name'] : null;
10 $session_name = isset($_SESSION['session_name']) ?
        $_SESSION['session_name'] : null;
11 ?>
12 <!DOCTYPE html>
13 <html>
14 <head>
15     <title>Passing Data in PHP</title>
16 </head>
17 <body>
18     <h2>Pass Data Between Pages (Single File Demo)</h2>
19     <form method="POST">
20         Enter Name: <input type="text" name="name" required>
21         <input type="submit" value="Submit via POST">
22     </form>
```

Output:

```
Warning: Undefined array key "REQUEST_METHOD" in /tmp/Bx30TPITKx/main.php on
    line 3
<!DOCTYPE html>
<html>
<head>
    <title>Passing Data in PHP</title>
</head>
<body>
    <h2>Pass Data Between Pages (Single File Demo)</h2>
    <form method="POST">
        Enter Name: <input type="text" name="name" required>
        <input type="submit" value="Submit via POST">
    </form>

    </body>
</html>

=== Code Execution Successful ===
```
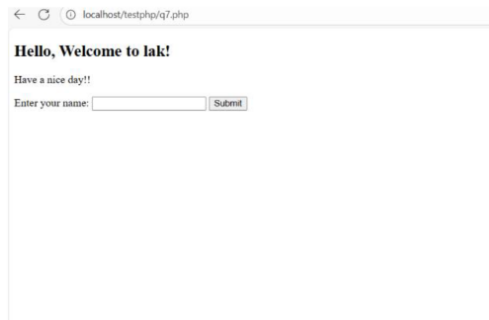
7.

Drink A - ₹25 for 11 units (₹2.27 per unit)
Drink B - ₹23 for 9 units (₹2.56 per unit)

☑ Drink A is a better deal. You save money!

8.

localhost/testphp/q7.php

Hello, Welcome to lak!

Have a nice day!!

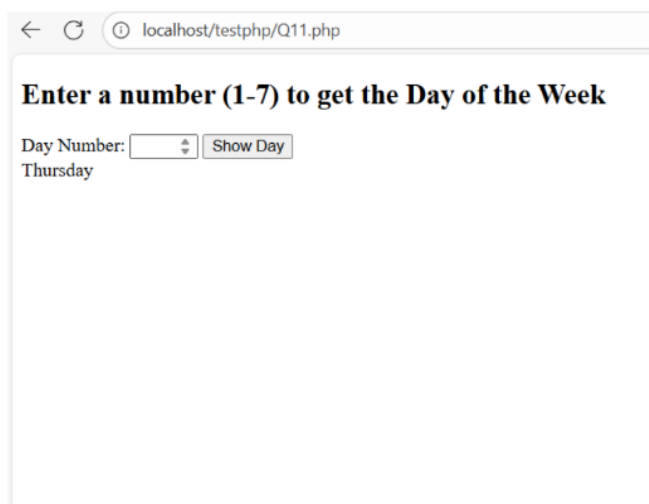Enter your name: [   ] Submit

10.

localhost/testphp/q10.php

Enter Student Marks

Name: [lak]

Marks: [100]

11.

localhost/testphp/Q11.php

Enter a number (1-7) to get the Day of the Week

Day Number: [   ] Show Day
Thursday

12.

localhost/testphp/Q12.php

Enter Marks to Check Grade

Marks: [____] [Check Grade]
Grade: First Class

13.

main.php		Output	Clear

```php
1   <?php
2   $name = "Dhanuja";
3   $age = 21;
4   $city = NULL;
5   if (isset($name)) {
6       echo " Name is set and not NULL.<br>";
7   } else {
8       echo " Name is not set.<br>";
9   }
10  if (isset($age)) {
11      echo " Age is set and not NULL.<br>";
12  } else {
13      echo " Age is not set.<br>";
14  }
15  if (isset($city)) {
16      echo " City is set and not NULL.<br>";
17  } else {
18      echo " City is not set.<br>";
19  }
20  if (isset($name, $age)) {
21      echo " Both name and age are set.<br>";
22  }
23  ?>
24
```

```
Name is set and not NULL.<br> Age is set and not NULL.<br> City is not set
    .<br> Both name and age are set.<br>

=== Code Execution Successful ===
```

14.

localhost/testphp/Q14.php

Form Submitted Successfully!

Thank you, **lak**.

We will contact you shortly at **23bcs085@psgrkcw.ac.in**.

Contact Form

Name: [____]

Email: [____]

Message:

[____]

[Submit]

15.

Sum of Digits Calculator

Enter a Number: [   ] Calculate

The sum of digits of **14** is: **5**

16.

Sum of Two Numbers

Enter First Number: [   ]

Enter Second Number: [   ]

Calculate Sum

The sum of 1 and 2 is: 3

17.

Bank Transaction

Enter Current Balance: [   ]

Select Transaction Type: [--Select-- ▾]

Enter Amount: [   ]

[Process Transaction]

✅ **Deposit successful! New balance: ₹1500**

Transaction Summary for Customers:

Ravi has ₹1200 in account.
Priya has ₹2500 in account.
Anil has ₹800 in account.

18.


```php
<?php
$name = "Dhanuja";
$age = 21;
$city = NULL;
if (isset($name)) {
    echo " Name is set and not NULL.<br>";
} else {
    echo " Name is not set.<br>";
}
if (isset($age)) {
    echo " Age is set and not NULL.<br>";
} else {
    echo " Age is not set.<br>";
}
if (isset($city)) {
    echo " City is set and not NULL.<br>";
} else {
    echo " City is not set.<br>";
}
if (isset($name, $age)) {
    echo " Both name and age are set.<br>";
}
?>
```
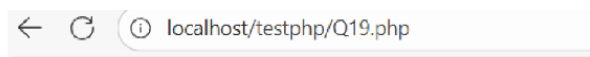
Output

```
Name is set and not NULL.<br> Age is set and not NULL.<br> City is not set
    .<br> Both name and age are set.<br>

=== Code Execution Successful ===
```

19.

Enter numbers separated by commas

e.g. 45,12,78,3,99,54   [Find Highest & Lowest]

Numbers: 24, 33

Highest Value: **33**

Lowest Value: **24**

20.

Contact Us

Name:
lak

Email:

Message:
HAI

[Submit]
Please fix the following errors:
- Email is required.

21.

Leap Year Checker   ×   +
Tab actions menu
localhost/testphp/q21.php

Check if a Year is a Leap Year

Enter Year: 2021   [Check]

22.

```php
1  <?php
2  $text = "Computer science is the study of computers and computational
       systems.
3  Computer science deals with software and software systems; this
       includes their theory, design, development, and application.
4  A degree in computer science can lead to careers in software
       engineering, data science, artificial intelligence, and
       cybersecurity.
5  Computer science is a rapidly growing field in today's digital age.";
6  $word = "computer science";
7  $count = substr_count(strtolower($text), strtolower($word));
8  echo "<h3>Paragraph:</h3><p>$text</p>";
9  echo "<h3>Result:</h3>";
10 echo "The phrase '$word' occurs $count times in the given paragraph.";
11 ?>
```

Output:

```
<h3>Paragraph:</h3><p>Computer science is the study of computers and
    computational systems.
Computer science deals with software and software systems; this includes
    their theory, design, development, and application.
A degree in computer science can lead to careers in software engineering,
    data science, artificial intelligence, and cybersecurity.
Computer science is a rapidly growing field in today's digital age.</p><h3
    >Result:</h3>The phrase 'computer science' occurs 4 times in the given
    paragraph.

=== Code Execution Successful ===
```

23.

localhost/testphp/q22.php   GET vs POST Example   +

localhost/testphp/q23.php?query=cs

Search Example (GET Method)

Search: cs   [Search]

You searched for: **cs**

Login Example (POST Method)

Username: admin

Password: 1234

[Login]

24.

localhost/testphp/q22.php   GET vs POST Example   localhost/testphp/q24.php   +

localhost/testphp/q24.php

Original String:

Computer Science is Amazing!

Length: 32
Trimmed: 'Computer Science is Amazing!'
Left Trim: 'Computer Science is Amazing! '
Right Trim: ' Computer Science is Amazing!'
Lowercase: computer science is amazing!
Uppercase: COMPUTER SCIENCE IS AMAZING!
First letter capitalized: Computer Science is Amazing!
Capitalize each word: Computer Science Is Amazing!
Reversed: !gnizamA si ecneicS retupmoC
Substring (0 to 8): Comput
First position of 'Science': 11
Last position of 'is': 19
Replace 'Amazing' with 'Interesting': Computer Science is Interesting!
Repeat 'Hi!' 3 times: Hi! Hi! Hi!
Exploded words: Array ([0] => Computer [1] => Science [2] => is [3] => Amazing!)
Imploded words: Computer-Science-is-Amazing!
Compare 'Hello' and 'hello' (case-sensitive): -1
Compare 'Hello' and 'hello' (case-insensitive): 0
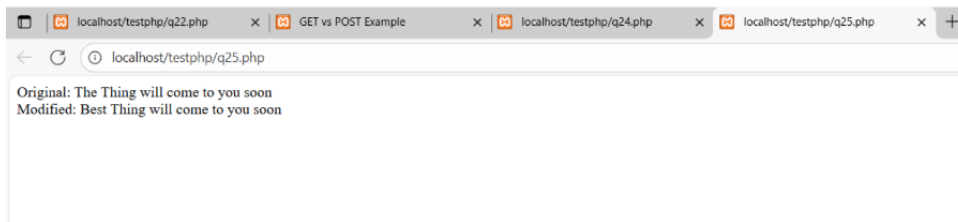Shuffled string: oScn eenusmipi! rciaCzteAg m
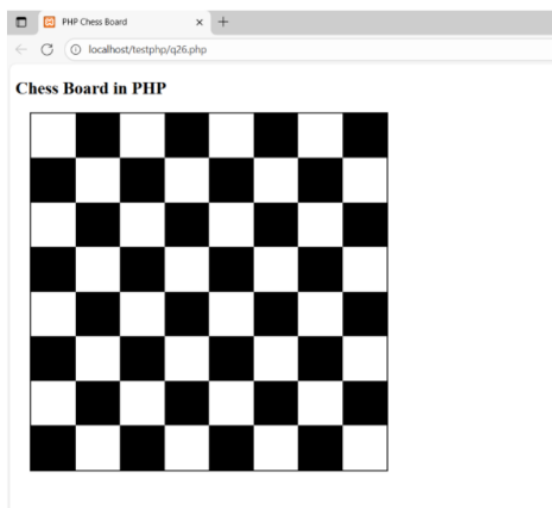Word wrapped:
Computer
Science is
Amazing!
HTML special chars: Bold Text
Formatted number: 1,234,567.89

25.

Original: The Thing will come to you soon
Modified: Best Thing will come to you soon

26.

Chess Board in PHP

27.

```php
1  <?php
2  $a = 15;
3  $b = 4;
4  echo "a = $a, b = $b <br><br>";
5  echo "Addition (+): " . ($a + $b) . "<br>";
6  echo "Subtraction (-): " . ($a - $b) . "<br>";
7  echo "Multiplication (*): " . ($a * $b) . "<br>";
8  echo "Division (/): " . ($a / $b) . "<br>";
9  echo "Modulus (%): " . ($a % $b) . "<br>";
10 echo "Exponentiation (**): " . ($a ** $b) . "<br>";
11 ?>
12
```

```
a = 15, b = 4 <br><br>Addition (+): 19<br>Subtraction (-): 11<br
>Multiplication (*): 60<br>Division (/): 3.75<br>Modulus (%): 3<br
>Exponentiation (**): 50625<br>

=== Code Execution Successful ===
```
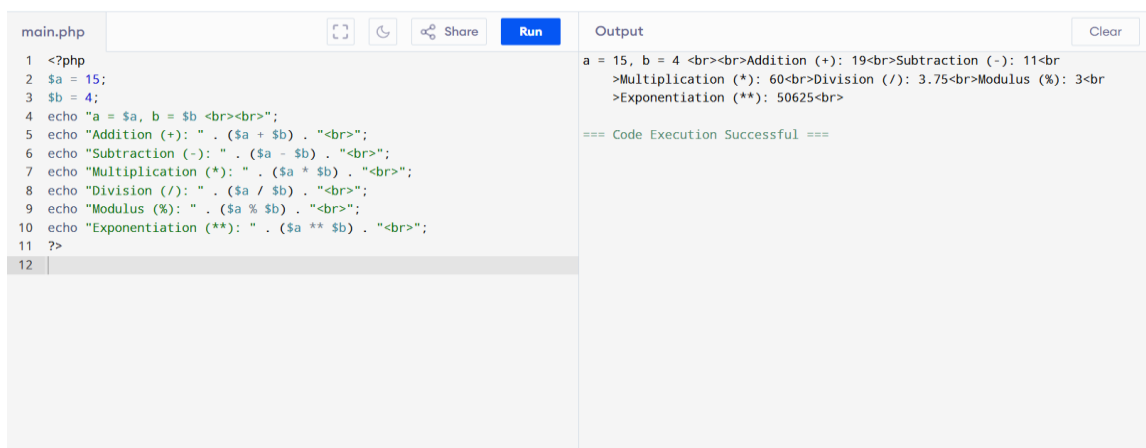
28.

main.php   [ ]   ☾   ⌗ Share   **Run**

```php
1  <?php
2  $a = 10;
3  $b = "10";
4  $c = 20;
5  function checkEquality($x, $y, $strict = false) {
6      if ($strict) {
7          echo ($x === $y) ? "Equal<br>" : "Not Equal<br>";
8      } else {
9          echo ($x == $y) ? "Equal<br>" : "Not Equal<br>";
10     }
11 }
12 echo "Check with == (value comparison):<br>";
13 checkEquality($a, $b); // value comparison
14 checkEquality($a, $c);
15 echo "<br>Check with === (value and type comparison):<br>";
16 checkEquality($a, $b, true); // strict comparison
17 checkEquality($a, $c, true);
18 echo "<br>Are all three equal (value check)?<br>";
19 echo ($a == $b && $b == $c) ? "Equal<br>" : "Not Equal<br>";
20 echo "Are all three equal (value & type)?<br>";
21 echo ($a === $b && $b === $c) ? "Equal<br>" : "Not Equal<br>";
22 ?>
23 |
```

Output   Clear

Check with == (value comparison):
Equal
Not Equal

Check with === (value and type comparison):
Not Equal
Not Equal

Are all three equal (value check)?
Not Equal
Are all three equal (value & type)?
Not Equal

=== Code Execution Successful ===

29.

main.php   [ ]   ☾   ⌗ Share   **Run**

```php
1  <?php
2  echo "<h2>PHP Function Demonstrations</h2>";
3  echo "<b>1. rand():</b><br>";
4  echo "Random number (no range): " . rand() . "<br>";
5  echo "Random number (1 to 10): " . rand(1, 10) . "<br><br>";
6  echo "<b>2. abs():</b><br>";
7  echo "Absolute value of -15: " . abs(-15) . "<br>";
8  echo "Absolute value of 20: " . abs(20) . "<br><br>";
9  echo "<b>3. str_replace():</b><br>";
10 $text = "I love PHP programming";
11 echo "Original: $text<br>";
12 echo "After replacement: " . str_replace("PHP", "Java", $text) . "<br
       ><br>";
13 echo "<b>4. pi():</b><br>";
14 echo "Value of pi: " . pi() . "<br>";
15 echo "Circumference of a circle (radius 5): " . (2 * pi() * 5) . "<br
       ><br>";
16 echo "<b>5. ceil():</b><br>";
17 echo "Ceil of 4.2: " . ceil(4.2) . "<br>";
18 echo "Ceil of -4.2: " . ceil(-4.2) . "<br>";
19 ?>|
```

Output   Clear

<h2>PHP Function Demonstrations</h2>1. rand():
Random number (no range): 1296805298
Random number (1 to 10): 8

2. abs():
Absolute value of -15: 15
Absolute value of 20: 20

3. str_replace():
Original: I love PHP programming
After replacement: I love Java programming

4. pi():
Value of pi: 3.1415926535898
Circumference of a circle (radius 5): 31.415926535898

5. ceil():
Ceil of 4.2: 5
Ceil of -4.2: -4

=== Code Execution Successful ===

30.

main.php   [ ]   ☾   ⌗ Share   **Run**

```php
1  <?php
2  function generatePassword($length = 12) {
3      $chars = 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123
           456789!@#$%^&*()-_=+<>?';
4      $password = '';
5      $charLength = strlen($chars);
6      for ($i = 0; $i < $length; $i++) {
7          $password .= $chars[rand(0, $charLength - 1)];
8      }
9      return $password;
10 }
11 echo "<h3>Random Password Generator</h3>";
12 echo "Generated Password: <b>" . generatePassword(12) . "</b>";
13 ?>|
```

Output   Clear

<h3>Random Password Generator</h3>Generated Password: UaeLN#-vy>G3

=== Code Execution Successful ===