

**LAPORAN TUGAS
PEMROGRAMAN WEB
PEKAN 4 : PHP – PENGENALAN DASAR**



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1) PHP implementasi fungsi built-in date (date.php)

a) Kode

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Ramadan Date</title>
    <link rel="stylesheet" href="css/style.css">
</head>
<body>

<div class="container">
    <h2>Ramadan Date</h2>
    <p>Implementasi beberapa fungsi built-in PHP terkait tanggal
dan waktu untuk studi kasus tentang Ramadan.</p>

    <div class="info">
        <?php
            // Mendapatkan tanggal hari ini
            $today_date = date('Y-m-d');
            echo "Today's Date: $today_date <br>";

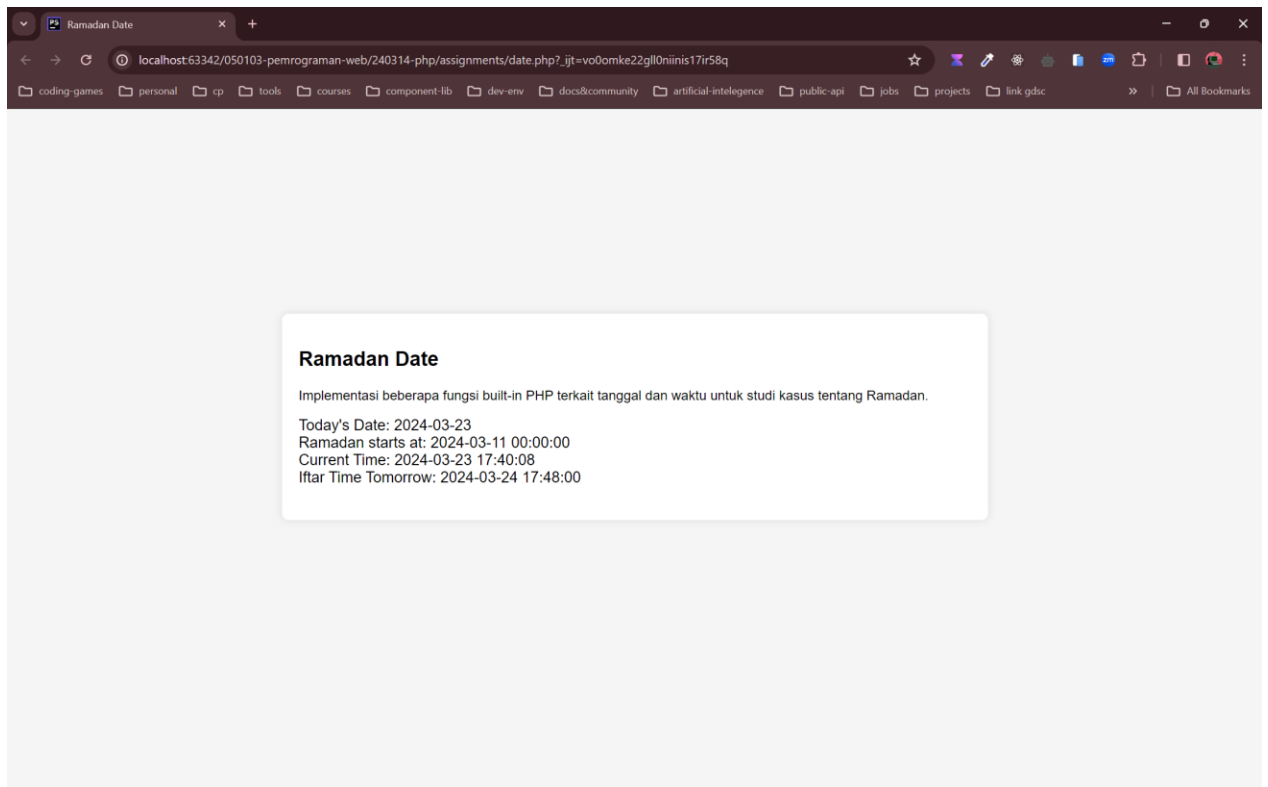
            // Membuat waktu untuk pukul 00:00:00 pada tanggal 1
Ramadan 2024
            $ramadan_start = mktime(00, 00, 0, 3, 11, 2024);
            echo "Ramadan starts at: " . date('Y-m-d H:i:s',
$ramadan_start) . "<br>";

            // Mendapatkan waktu saat ini
            $current_time = time();
            echo "Current Time: " . date('Y-m-d H:i:s',
$current_time) . "<br>";

            // Mengonversi string waktu ke timestamp dengan
            $iftar_time = strtotime('tomorrow 17:48:00');
            echo "Iftar Time Tomorrow: " . date('Y-m-d H:i:s',
$iftar_time) . "<br>";
        <?>
    </div>
</div>

</body>
</html>
```

b) Hasil



2) PHP implementasi fungsi built-in string (string.php)

a) Kode

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Ramadan String</title>
  <link rel="stylesheet" href="css/style.css">
</head>
<body>

<div class="container">
  <h2>Ramadan String</h2>
  <p>Implementasi beberapa fungsi built-in PHP terkait
manipulasi string untuk studi kasus tetang Ramadan.</p>

  <div class="info">
    <?php
      // Mengambil panjang dari string
      $message = "Marhaban ya Ramadan!";
```

```

        echo "Length of the string \"\$message\": " .
strlen(\$message) . "<br>";

        // Membandingkan dua string
        \$ramadan = "Ramadan";
        \$eid = "Eid";
        \$comparison = strcmp(\$ramadan, \$eid);
        if (\$comparison == 0) {
            echo "\"\$ramadan\" is equal to \"\$eid\"<br>";
        } elseif (\$comparison > 0) {
            echo "\"\$ramadan\" is greater than \"\$eid\"<br>";
        } else {
            echo "\"\$ramadan\" is less than \"\$eid\"<br>";
        }

        // Mencari kemunculan pertama dari sebuah string dalam
string lain
        \$email = "infotakjil@ramadan.com";
        \$domain = strstr(\$email, '@');
        echo "Domain part of email \"\$email\": \$domain<br>";

        // Menggabungkan elemen-elemen array dengan sebuah
string
        \$takjils = array("Kolak", "Gorengan", "Es buah");
        \$takjils_implode = implode(", ", \$takjils);
        \$takjils_join = join(", ", \$takjils);
        echo "Implode takjils: \$takjils_implode<br>";
        echo "Join takjils: \$takjils_join<br>";

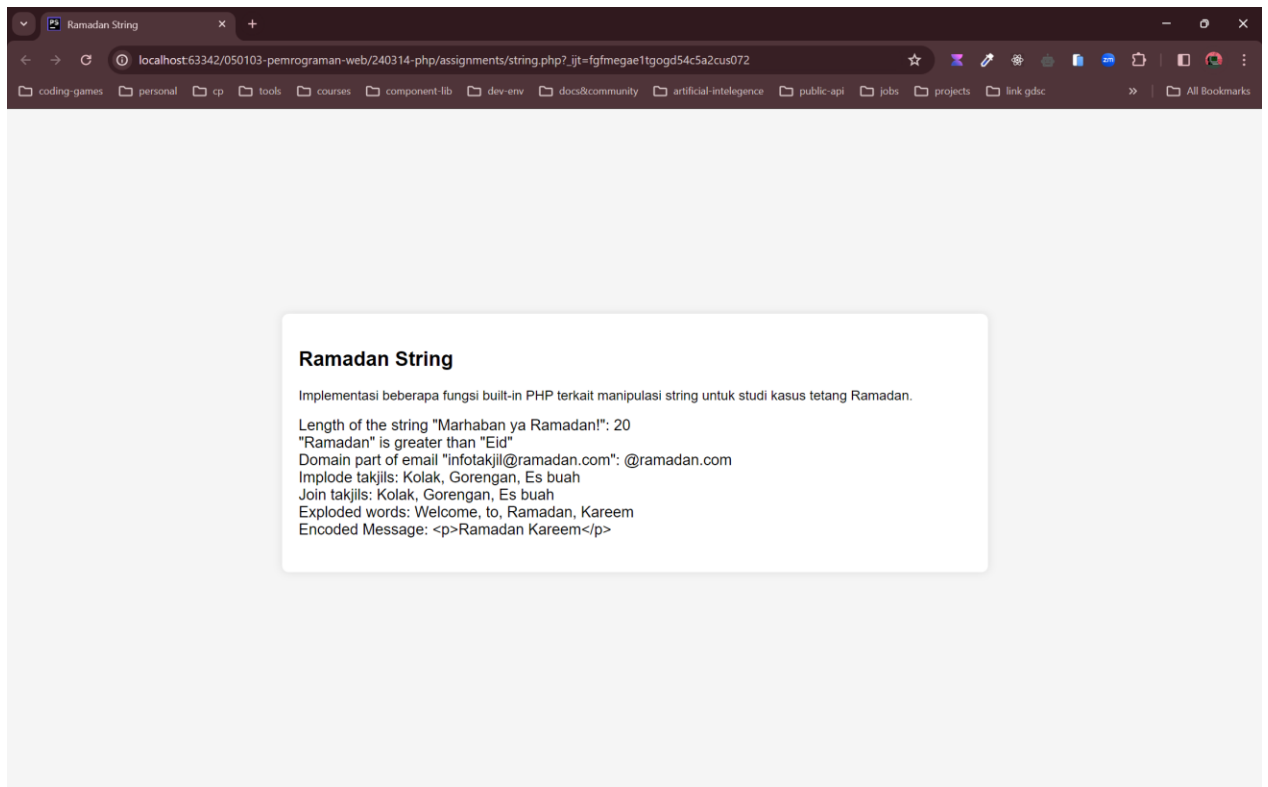
        // Membagi sebuah string menjadi array berdasarkan
string pemisah
        \$sentence = "Welcome to Ramadan Kareem";
        \$words = explode(" ", \$sentence);
        echo "Exploded words: " . implode(", ", \$words) .
"<br>";

        // Mengonversi karakter-karakter khusus ke bentuk
entitas HTML
        \$html_message = "<p>Ramadan Kareem</p>";
        \$encoded_message = htmlspecialchars(\$html_message);
        echo "Encoded Message: \$encoded_message<br>";
        ?>
    </div>
</div>

</body>
</html>

```

b) Hasil



3) PHP implementasi fungsi built-in date (date.php)

a) Kode

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Math</title>
  <link rel="stylesheet" href="css/style.css">
</head>
<body>

<div class="container">
  <h2>Ramadan Math</h2>
  <p>Implementasi beberapa fungsi built-in PHP terkait
matematika untuk studi kasus tentang Ramadan.</p>

  <div class="info">
    <?php
      # Mempangkat bilangan ke pangkat tertentu
      $base = 2;
```

```

$exponent = 3;
$result_pow = pow($base, $exponent);
echo "Result of $base raised to the power of $exponent:
$result_pow<br>";

// Menghitung logaritma dari bilangan
$number = 10;
$number_log = log($number);
echo "logarithm of $number: $number_log<br>";

// Mendapatkan nilai  $\pi$  (pi)
$pi_value = pi();
echo "Value of pi: $pi_value<br>";

// Menghasilkan bilangan bulat acak
$random_number = rand(1, 100);
echo "Random number between 1 and 100:
$random_number<br>";

// Mencari nilai tertinggi dari beberapa nilai
$numbers = [10, 20, 5, 30];
$max_number = max($numbers);
echo "Highest number in the array: $max_number<br>";

// Mencari nilai terendah dari beberapa nilai
$min_number = min($numbers);
echo "Lowest number in the array: $min_number<br>";

// Pembulatan ke bawah dari bilangan pecahan
$number_to_floor = 3.7;
$result_floor = floor($number_to_floor);
echo "Floor value of $number_to_floor:
$result_floor<br>";

// Pembulatan ke atas dari bilangan pecahan
$number_to_ceil = 3.2;
$result_ceil = ceil($number_to_ceil);
echo "Ceiling value of $number_to_ceil:
$result_ceil<br>";

// Pembulatan dari bilangan pecahan
$number_to_round = 3.5;
$result_round = round($number_to_round);
echo "Rounded value of $number_to_round:
$result_round<br>";

// Fungsi trigonometri (sinus, kosinus, tangen)
$hilal_degrees = 45;
// Mengubah derajat menjadi radian
$hilal_radians = deg2rad($hilal_degrees);
$sin_value = sin($hilal_radians);

```

```

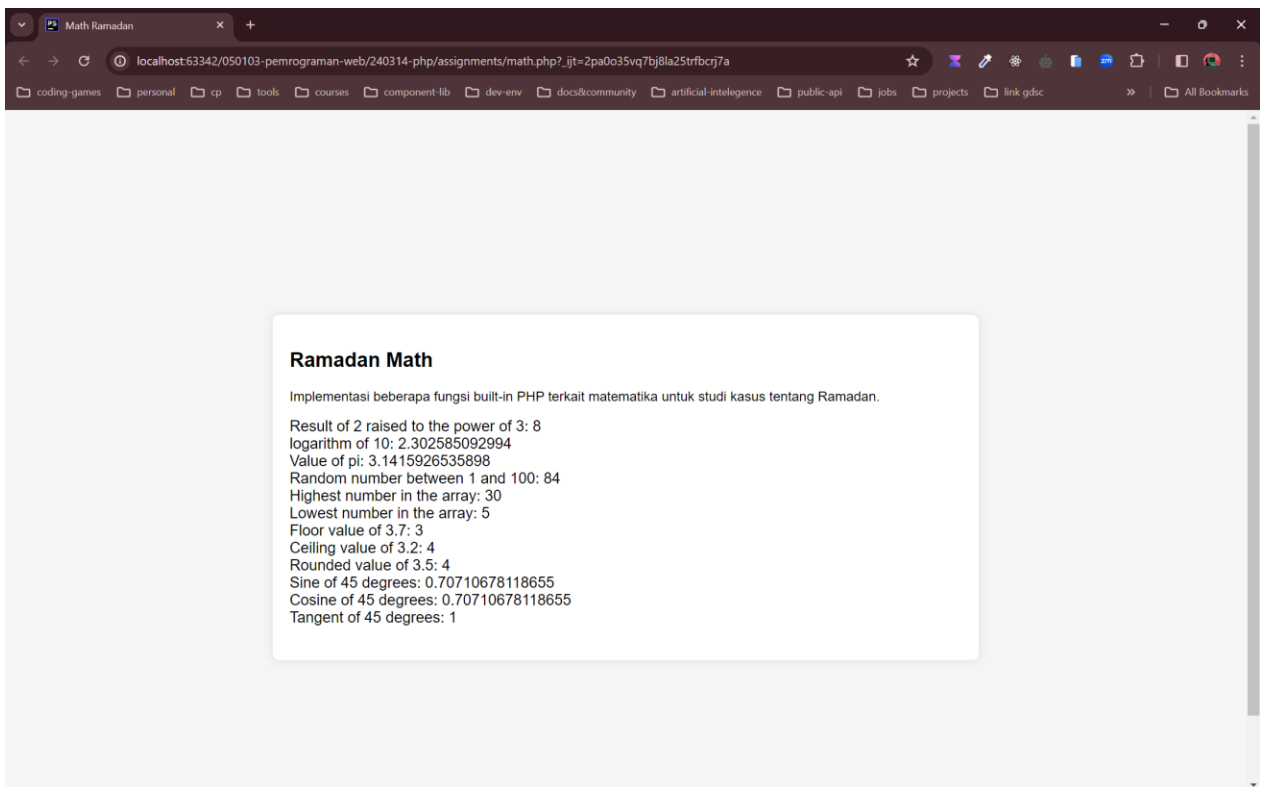
        $cos_value = cos($hilal_radians);
        $tan_value = tan($hilal_radians);
        echo "Sine of $hilal_degrees degrees: $sin_value<br>";
        echo "Cosine of $hilal_degrees degrees: $cos_value<br>";
        echo "Tangent of $hilal_degrees degrees:
        $tan_value<br>";
        ?>
    </div>

</div>

</body>
</html>

```

b) Hasil



4) PHP implementasi fungsi built-in date (date.php)

a) Kode

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Ramadan Utility</title>

```



```

    <link rel="stylesheet" href="css/style.css">
</head>
<body>

<div class="container">
    <h2>Ramadan Utility</h2>
    <p>Implementasi beberapa fungsi built-in PHP terkait
    utilitas untuk studi kasus tentang Ramadan.</p>

    <div class="info">
        <?php
            // Menghitung jumlah elemen dalam array
            $takjils = ["kolak", "pisang ijo", "tahu goreng", "es
buah", "es kuwut"];
            $count = count($takjils);
            echo "Number of elements in the array: $count<br>";

            // Memeriksa apakah sebuah variabel sudah diatur dan
tidak null
            $iftar = 18;
            $fasting = null;
            $message = "Its time to iftar!";
            echo "Is iftar set and not null? " . (isset($iftar) ?
"Yes" : "No") . "<br>";
            echo "Is fasting set and not null? " . (isset($fasting)
? "Yes" : "No") . "<br>";
            echo "Is message set and not null? " . (isset($message)
? "Yes" : "No") . "<br>";

            // Memeriksa apakah sebuah variabel kosong
            $activity = '';
            $takjil = 0;
            $friend = [];
            $money = null;
            $pray = True;
            echo "Is activity empty? " . (empty($activity) ? "Yes" :
"No") . "<br>";
            echo "Is takjil empty? " . (empty($takjil) ? "Yes" :
"No") . "<br>";
            echo "Is friend empty? " . (empty($friend) ? "Yes" :
"No") . "<br>";
            echo "Is money empty? " . (empty($money) ? "Yes" : "No")
. "<br>";
            echo "Is pray empty? " . (empty($pray) ? "Yes" : "No") .
"<br>";
        ?>
    </div>
</div>
</body>
</html>

```

b) Hasil

