Laporan Tugas Pemrograman Web Lanjut

Dosen Pengampu : **AJIB SUSANTO, M.Kom**

Tanggal Pertemuan : 26 Februari 2025

Nama : Ferdian Nur Fariza

NIM : A11.2023.15074

Kelas : A11.4409
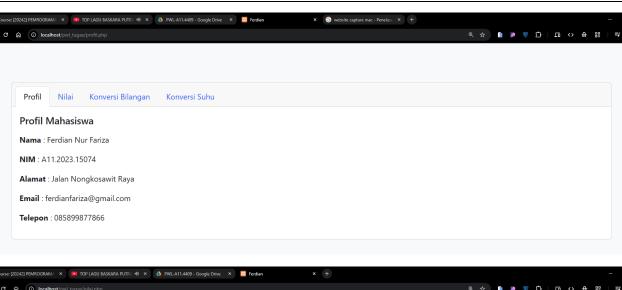
Mata Kuliah : Pemrograman Web Lanjut

Topik :

Tugas PHP 1

Tabel Deskripsi :

Pertemuan	Isi Laporan
1	Dokumentasi hasil
	Source Code

Dokumentasi Hasil

Profil   Nilai   **Konversi Bilangan**   Konversi Suhu

Desimal	Biner	Oktal	Hexa
0	0	0	0
1	1	1	1
2	10	2	2
3	11	3	3
4	100	4	4
5	101	5	5
6	110	6	6
7	111	7	7
8	1000	10	8
9	1001	11	9
10	1010	12	a

Konversi Bilangan Desimal

Masukan nilai desimal:

Nilai	Masukkan Nilai Desimal	Konversikan

Profil   Nilai   Konversi Bilangan   **Konversi Suhu**

Konversi Suhu

Pilih satuan dan masukan nilai:

Celcius	Fahrenheit	Kelvin	Reamur	Nilai	123	Konversikan

Hasil Konversi

Celcius	Fahrenheit	Kelvin	Reamur
51 °C	123 °F	324 °K	40 °R

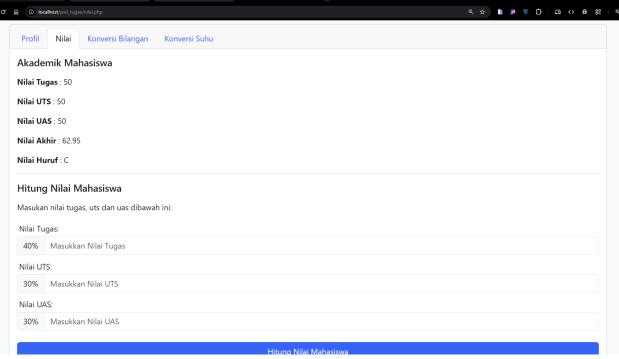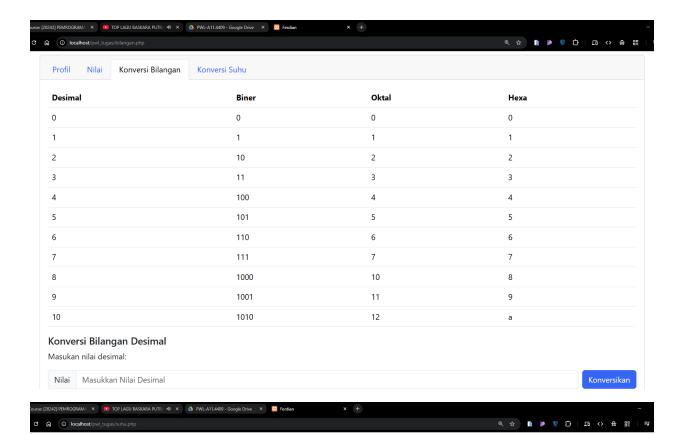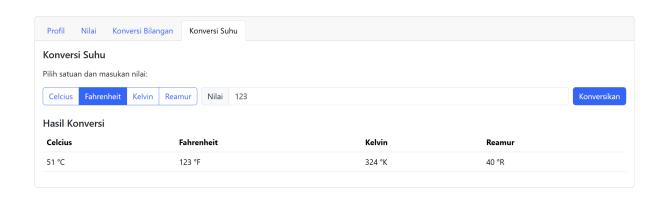## profil.php

```
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta charset="UTF-8" />
    <title>Ferdian</title>
    <link rel="stylesheet" href="style.css" />
    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
        rel="stylesheet"
        integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
        crossorigin="anonymous" />
    <style>
        @media (min-width: 1024px) {
            html {
                padding: 100px;
            }
        }
        @media (max-width: 1023px) {
            html {
                padding: 50px;
            }
        }
    </style>
</head>

<body class="bg-light">
    <script
        src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.j
s"
        integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
        crossorigin="anonymous">
    </script>
    <div class="card">
        <div class="card-header">
            <ul class="nav nav-tabs card-header-tabs">
                <li class="nav-item">
                    <a class="nav-link active" aria-current="true"
href="profil.php">Profil</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="nilai.php">Nilai</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="bilangan.php">Konversi Bilangan</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="suhu.php">Konversi Suhu</a>
                </li>
            </ul>
```

```php
        </div>
        <div class="card-body">

            <h5 class="card-title mb-3">Profil Mahasiswa</h5>
            <?php
            $nim = "A11.2023.15074";
            $nama = "Ferdian Nur Fariza";
            $alamat = "Jalan Nongkosawit Raya";
            $email = "ferdianfariza@gmail.com";
            $telepon = "085899877866";

            echo "<p><strong>Nama   </strong> : $nama <br></p>";
            echo "<p><strong>NIM    </strong> : $nim <br></p>";
            echo "<p><strong>Alamat </strong> : $alamat <br></p>";
            echo "<p><strong>Email  </strong> : $email <br></p>";
            echo "<p><strong>Telepon</strong> : $telepon <br></p>";
            ?>
        </div>
    </div>
</body>
</html>
```

nilai.php

```php
<?php

function nilaiAkhir($nilaiTugas, $nilaiUTS, $nilaiUAS)
{
    $nilaiTugas = floatval($nilaiTugas);
    $nilaiUTS = floatval($nilaiUTS);
    $nilaiUAS = floatval($nilaiUAS);

    $nilaiAkhir = (0.4 * $nilaiTugas) + (0.3 * $nilaiUTS) + (0.3 * $nilaiUAS);
    $nilaiAkhir = floatval($nilaiAkhir);

    return $nilaiAkhir;
}
function nilaiHuruf($nilaiAkhir)
{
    if ($nilaiAkhir >= 85) {
        $nilaiHuruf = "A";
    } elseif ($nilaiAkhir >= 68.5) {
        $nilaiHuruf = "B";
    } elseif ($nilaiAkhir >= 58.5) {
        $nilaiHuruf = "C";
    } elseif ($nilaiAkhir >= 40) {
        $nilaiHuruf = "D";
    } else {
        $nilaiHuruf = "E";
    }
    return $nilaiHuruf;
}

$nilaiTugas = $_POST["nilaitugas"] ?? '';
$nilaiUTS = $_POST["nilaiuts"] ?? '';
$nilaiUAS = $_POST["nilaiuas"] ?? '';

$hasilAkhir = null;
$hasilHuruf = null;

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $hasilAkhir = nilaiAkhir($nilaiTugas, $nilaiUTS, $nilaiUAS);
    $hasilHuruf = nilaiHuruf($hasilAkhir);
}
?>
<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta charset="UTF-8" />
    <title>Ferdian</title>
    <link rel="stylesheet" href="style.css" />
    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
        rel="stylesheet"
```

```html
        integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
        crossorigin="anonymous" />
    <style>
        @media (min-width: 1024px) {
            html {
                padding: 100px;
            }
        }

        @media (max-width: 1023px) {
            html {
                padding: 50px;
            }
        }
    </style>
</head>

<body class="bg-light">

    <script
        src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
        crossorigin="anonymous">
    </script>
    <div class="card">
        <div class="card-header">
            <ul class="nav nav-tabs card-header-tabs">
                <li class="nav-item">
                    <a class="nav-link " href="profil.php">Profil</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link active" aria-current="true"
href="nilai.php">Nilai</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="bilangan.php">Konversi Bilangan</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="suhu.php">Konversi Suhu</a>
                </li>
            </ul>
        </div>
        <div class="card-body">
            <h5 class="card-title mb-3">Akademik Mahasiswa</h5>
            <?php
            $tugas = "50";
            $uts = "50";
            $uas = "87";
            $bilangan = 1;
            $ntugas = 0.3 * $tugas;
            $nuts = 0.35 * $uts;
```

```php
        $nuas = 0.35 * $uas;
        $nakhir = ($ntugas + $nuts + $nuas);

        $huruf = "null";
        if ($nakhir >= 85) {
            $huruf = "A";
        } elseif ($nakhir >= 68.5) {
            $huruf = "B";
        } elseif ($nakhir >= 58.5) {
            $huruf = "C";
        } elseif ($nakhir >= 40) {
            $huruf = "D";
        } else {
            $huruf = "D";
        }

        echo "<p><strong> Nilai Tugas</strong>     : $tugas <br></p>";
        echo "<p><strong>Nilai UTS  </strong>  : $uts <br></p>";
        echo "<p><strong>Nilai UAS  </strong>  : $uts <br></p>";
        echo "<p><strong>Nilai Akhir</strong>     : $nakhir <br></p>";
        echo "<p><strong>Nilai Huruf</strong> : $huruf <br></p>";

        ?>
        <div class="text-success">
            <hr>
        </div>
        <h5 class="card-title mb-3">Hitung Nilai Mahasiswa</h5>
        <p>Masukan nilai tugas, uts dan uas dibawah ini:</p>
        <form method="POST">
            <div class="d-flex flex-column mb-6 gap-2">
                <div>
                    <p class="m-1">Nilai Tugas:</p>
                    <div class="input-group">
                        <div class="input-group-text">40%</div>
                        <input type="number" step="any" class="form-control"
name="nilaitugas" placeholder="Masukkan Nilai Tugas" value="<?=
htmlspecialchars($nilaiTugas) ?>" required>
                    </div>
                </div>
                <div>
                    <p class="m-1">Nilai UTS:</p>
                    <div class="input-group">
                        <div class="input-group-text">30%</div>
                        <input type="number" step="any" class="form-control"
name="nilaiuts" placeholder="Masukkan Nilai UTS" value="<?=
htmlspecialchars($nilaiUTS) ?>" required>
                    </div>
                </div>
                <div>
                    <p class="m-1">Nilai UAS:</p>
                    <div class="input-group">
                        <div class="input-group-text">30%</div>
```

```php
                    <input type="number" step="any" class="form-control"
name="nilaiuas" placeholder="Masukkan Nilai UAS" value="<?=
htmlspecialchars($nilaiUAS) ?>" required>
                </div>
            </div>

            <button type="submit" class="btn btn-primary my-3">Hitung Nilai
Mahasiswa</button>
        </div>
    </form>
    <!-- jika tidak memenuhi if maka tidak show (hidden) -->
    <?php if ($hasilAkhir) : ?>
        <h5>Hasil Konversi</h5>
        <p><strong>Nilai Akhir Mahasiswa</strong> : <?= number_format($hasilAkhir)
?></p>

    <?php endif; ?>

    <?php if ($hasilHuruf) : ?>

        <p><strong>Nilai Huruf</strong> : <?= $hasilHuruf ?></p>

    <?php endif; ?>
        </div>
    </div>
</body>
</html>
```

bilangan.php

```php
<?php
function konversiBilangan($nilai)
{
    $nilai = intval($nilai);
    $hasil = [
        'Desimal' => 0,
        'Biner' => 0,
        'Oktal' => 0,
        'Hexa' => 0
    ];

    $biner = decbin($nilai);
    $oktal = decoct($nilai);
    $hexa = dechex($nilai);

    $hasil['Desimal'] = $nilai;
    $hasil['Biner'] = $biner;
    $hasil['Oktal'] = $oktal;
    $hasil['Hexa'] = $hexa;

    return $hasil;
}
$nilai = $_POST['nilai'] ?? '';
$hasilkonversi = null;

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $hasilkonversi = konversiBilangan($nilai);
};

?>
<!DOCTYPE html>
<html>

<head>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta charset="UTF-8" />
    <title>Ferdian</title>
    <link rel="stylesheet" href="style.css" />
    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
        rel="stylesheet"
        integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
        crossorigin="anonymous" />
    <style>
        @media (min-width: 1024px) {
            html {
                padding: 100px;
            }
        }

        @media (max-width: 1023px) {
```

```html
        html {
            padding: 50px;
        }
    }
    </style>
</head>

<body>

    <script
        src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
        crossorigin="anonymous">
    </script>
    <div class="card">
        <div class="card-header">
            <ul class="nav nav-tabs card-header-tabs">
                <li class="nav-item">
                    <a class="nav-link" href="profil.php">Profil</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="nilai.php">Nilai</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link active" aria-current="true"
href="bilangan.php">Konversi Bilangan</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="suhu.php">Konversi Suhu</a>
                </li>
            </ul>
        </div>
        <div class="card-body">

            <table class="table table-hover">
                <thead>
                    <tr>
                        <th scope="col">Desimal</th>
                        <th scope="col">Biner</th>
                        <th scope="col">Oktal</th>
                        <th scope="col">Hexa</th>
                    </tr>
                </thead>
                <tbody>
                    <?php
                    for ($i = 0; $i <= 10; $i++) {
                        echo "<tr>";
                        echo "<td>$i</td>";
                        echo "<td>" . decbin($i) . "</td>";
                        echo "<td>" . decoct($i) . "</td>";
                        echo "<td>" . dechex($i) . "</td>";
                        echo "<tr>";
```

```php
                }
                ?>
            </tbody>
        </table>
        <h5 class="card-title">Konversi Bilangan Desimal</h5>
        <p>Masukan nilai desimal:</p>
        <form method="POST">
            <div class="d-flex align-items-center gap-2 mb-3">

                <div class="input-group">
                    <div class="input-group-text">Nilai</div>
                    <input type="number" step="any" class="form-control" name="nilai"
placeholder="Masukkan Nilai Desimal" value="<?= htmlspecialchars($nilai) ?>" required>
                </div>
                <button type="submit" class="btn btn-primary">Konversikan</button>
            </div>
        </form>
        <?php if ($hasilkonversi) : ?>
            <h5 class="card-title mt-4">Hasil Konversi</h5>
            <table class="table">
                <thead>
                    <tr>
                        <th>Desimal</th>
                        <th>Biner</th>
                        <th>Oktal</th>
                        <th>Hexa</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td><?= $hasilkonversi['Desimal'] ?></td>
                        <td><?= $hasilkonversi['Biner'] ?></td>
                        <td><?= $hasilkonversi['Oktal'] ?></td>
                        <td><?= $hasilkonversi['Hexa'] ?></td>
                    </tr>
                </tbody>
            </table>
        <?php endif; ?>
        </div>
    </div>


</body>

</html>
```

suhu.php

```php
<?php
function konversiSuhu($nilai, $satuan)
{
    $nilai = floatval($nilai);
    $hasil = [
        'Celcius' => 0,
        'Fahrenheit' => 0,
        'Kelvin' => 0,
        'Reamur' => 0
    ];
    switch ($satuan) {
        case 'Celcius':
            $hasil['Celcius'] = $nilai;
            $hasil['Fahrenheit'] = ($nilai * 9 / 5) + 32;
            $hasil['Kelvin'] = $nilai + 273;
            $hasil['Reamur'] = $nilai * 4 / 5;
            break;
        case 'Fahrenheit':
            $hasil['Celcius'] = ($nilai - 32) * 5 / 9;
            $hasil['Fahrenheit'] = $nilai;
            $hasil['Kelvin'] = ($nilai - 32) * 5 / 9 + 273;
            $hasil['Reamur'] = ($nilai - 32) * 4 / 9;
            break;
        case 'Kelvin':
            $hasil['Celcius'] = $nilai - 273;
            $hasil['Fahrenheit'] = ($nilai - 273) * 9 / 5 + 32;
            $hasil['Kelvin'] = $nilai;
            $hasil['Reamur'] = ($nilai - 273) * 4 / 5;
            break;
        case 'Reamur':
            $hasil['Celcius'] = $nilai * 5 / 4;
            $hasil['Fahrenheit'] = ($nilai * 9 / 4) + 32;
            $hasil['Kelvin'] = ($nilai * 5 / 4) + 273;
            $hasil['Reamur'] = $nilai;
            break;
    }
    return $hasil;
}
$nilai = $_POST['nilai'] ?? '';
$satuan = $_POST['satuan'] ?? '';
$hasilKonversi = null;
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $hasilKonversi = konversiSuhu($nilai, $satuan);
}
?>

<!DOCTYPE html>
<html>

<head>
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta charset="UTF-8" />
```

```html
    <title>Ferdian</title>
    <link rel="stylesheet" href="style.css" />
    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
        rel="stylesheet"
        integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
        crossorigin="anonymous" />
    <style>
        @media (min-width: 1024px) {
            html {
                padding: 100px;
            }
        }

        @media (max-width: 1023px) {
            html {
                padding: 50px;
            }
        }
    </style>
</head>

<body>

    <script
        src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jIeHz"
        crossorigin="anonymous">
    </script>
    <div class="card">
        <div class="card-header">
            <ul class="nav nav-tabs card-header-tabs">
                <li class="nav-item">
                    <a class="nav-link" href="profil.php">Profil</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="nilai.php">Nilai</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="bilangan.php">Konversi Bilangan</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link active" aria-current="true" href="suhu.php">Konversi
Suhu</a>
                </li>
            </ul>
        </div>
        <div class="card-body">
            <h5 class="card-title mb-3">Konversi Suhu</h5>
            <p>Pilih satuan dan masukan nilai:</p>
            <form method="POST">
```

```php
            <div class="d-flex align-items-center gap-2 mb-3">
                <div class="btn-group" role="group">
                    <?php
                    $satuanList = ['Celcius', 'Fahrenheit', 'Kelvin', 'Reamur'];
                    foreach ($satuanList as $index => $unit) {
                        $checked = ($unit == $satuan) ? 'checked' : '';
                        echo "<input type='radio' class='btn-check' name='satuan'
id='btnradio$index' value='$unit' $checked required>";
                        echo "<label class='btn btn-outline-primary'
for='btnradio$index'>$unit</label>";
                    }
                    ?>
                </div>
                <div class="input-group">
                    <div class="input-group-text">Nilai</div>
                    <input type="number" step="any" class="form-control" name="nilai"
placeholder="Masukkan Nilai" value="<?= htmlspecialchars($nilai) ?>" required>
                </div>
                <button type="submit" class="btn btn-primary">Konversikan</button>
            </div>
        </form>
        <?php if ($hasilKonversi) : ?>
            <h5 class="card-title mt-4">Hasil Konversi</h5>
            <table class="table">
                <thead>
                    <tr>
                        <th>Celcius</th>
                        <th>Fahrenheit</th>
                        <th>Kelvin</th>
                        <th>Reamur</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td><?= number_format($hasilKonversi['Celcius']) ?> °C</td>
                        <td><?= number_format($hasilKonversi['Fahrenheit']) ?> °F</td>
                        <td><?= number_format($hasilKonversi['Kelvin']) ?> °K</td>
                        <td><?= number_format($hasilKonversi['Reamur']) ?> °R</td>
                    </tr>
                </tbody>
            </table>
        <?php endif; ?>
        </div>

    </div>
    </div>
</body>
</html>
```