

# **LAPORAN PRAKTIKUM-3**

## **PEMROGRAMAN WEB**



**SOFTWARE ENGINEERING  
LABORATORY**

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**LAPORAN PRAKTIKUM-3****1. SQL Membuat Database dan Tabel, di phpMyAdmin / MySQL console:**

- Membuat database : db\_mahasiswa**

The screenshot shows the phpMyAdmin interface for the 'db\_mahasiswa' database. In the 'Structure' tab, a new table named 'mahasiswa' is being created with 4 columns. The table structure is as follows:

ID	nim	nama	prodi	jenis_kelamin	alamat
NULL	202431044	Muhammad Etanasa Raihan Surya	Teknik Informatika	Laki-laki	Jakarta

The screenshot shows the phpMyAdmin interface for the 'db\_mahasiswa' database, specifically the 'mahasiswa' table. A SELECT query has been run, resulting in the following output:

```
SELECT * FROM `mahasiswa`
```

The results show one row of data:

ID	nim	nama	prodi	jenis_kelamin	alamat
NULL	202431044	Muhammad Etanasa Raihan Surya	Teknik Informatika	Laki-laki	Jakarta

- Membuat tabel mahasiswa

The screenshot shows the phpMyAdmin interface for the 'db\_mahasiswa' database. The 'Table structure' tab is selected, displaying the following table definition:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>id</b>	int(11)			Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
2	<b>nim</b>	varchar(20)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
3	<b>nama</b>	varchar(100)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
4	<b>prodi</b>	varchar(100)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
5	<b>jenis_kelamin</b>	varchar(20)	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>
6	<b>alamat</b>	text	utf8mb4_general_ci		Yes	NULL			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">More</a>

Below the table, there are buttons for 'Check all', 'With selected:', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', 'Fulltext', 'Add to central columns', and 'Remove from central columns'. A search bar at the bottom left allows adding a column after 'alamat'.

## 2. Kode Lengkap Setiap File

### a. koneksi.php

The screenshot shows a code editor with the 'koneksi.php' file open. The code defines a MySQL connection to a local database:

```

1 <?php
2
3 $host = "localhost";
4 $user = "root";
5 $pass = "";
6 $db = "db_mahasiswa";
7
8 $koneksi = mysqli_connect($host, $user, $pass, $db);
9
10 if (!$koneksi) {
11     die("Koneksi ke MySQL gagal: " . mysqli_connect_error());
12 }
13 ?>

```

**b. form.php**

The image shows two side-by-side screenshots of a code editor interface, likely Visual Studio Code, displaying PHP files. Both screenshots have a dark theme and show the same file structure in the Explorer sidebar.

**Screenshot 1 (Top):**

- Explorer:** Shows three files: `form.php`, `koneksi.php`, and `simpan.php`.
- Code Editor:** The `form.php` file contains the following CSS-like code:

```
<?php
<!DOCTYPE html>
<html lang="id">
<head>
    <meta charset="UTF-8">
    <title>Form Input Data Mahasiswa</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f6f7;
            margin: 0;
            padding: 0;
        }

        .container {
            width: 500px;
            margin: 40px auto;
            background: #ffffff;
            padding: 20px 30px;
            border-radius: 8px;
            box-shadow: 0 0 8px rgba(0,0,0,0.1);
        }

        h2 {
            text-align: center;
            margin-bottom: 20px;
            color: #2c3e50;
        }
    </style>

```

**Screenshot 2 (Bottom):**

- Explorer:** Shows three files: `form.php`, `koneksi.php`, and `simpan.php`.
- Code Editor:** The `form.php` file contains the following CSS-like code:

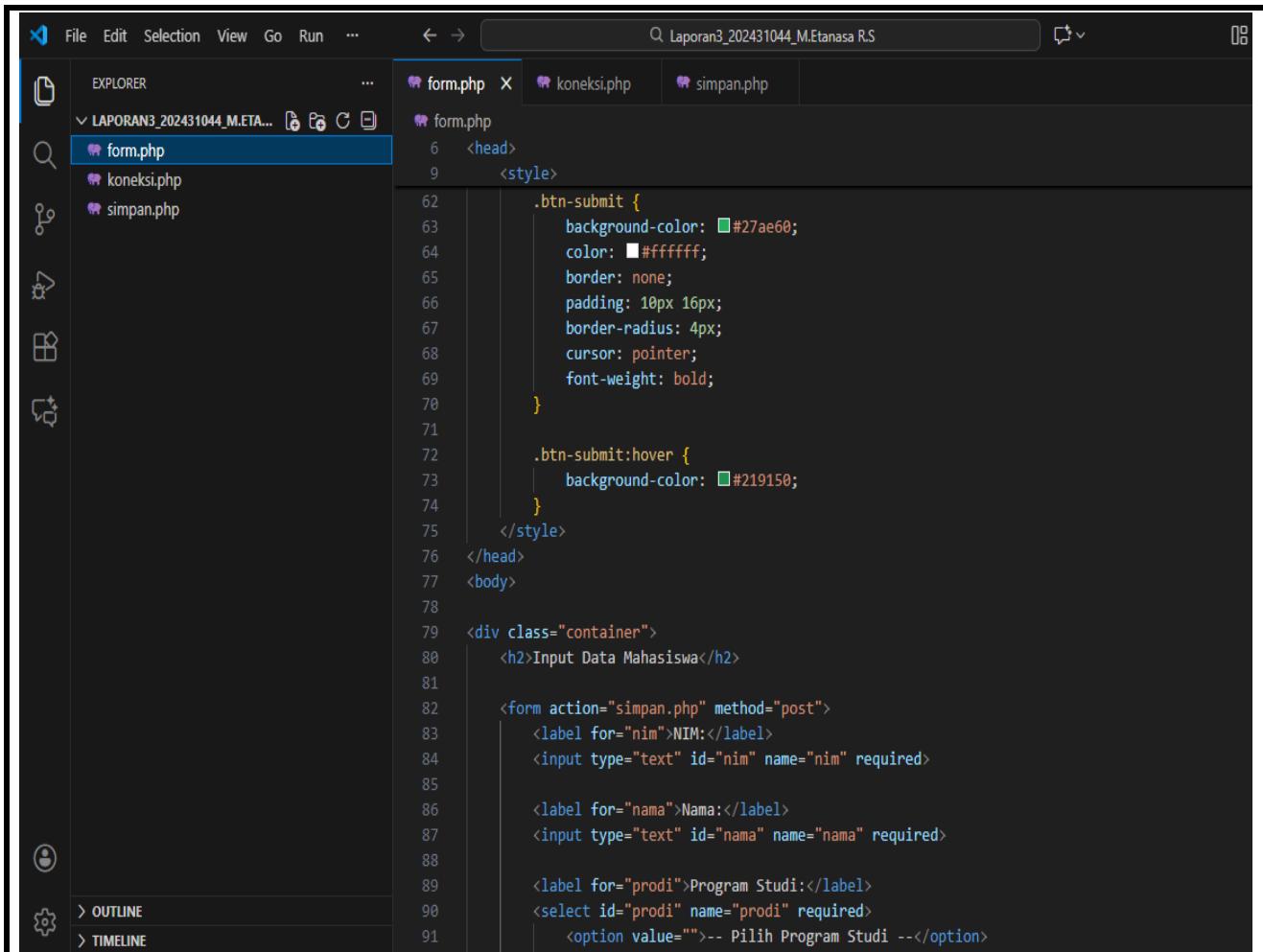
```
<head>
<style>
    label {
        display: block;
        margin-bottom: 6px;
        font-weight: bold;
    }

    input[type="text"],
    select,
    textarea {
        width: 100%;
        padding: 8px;
        margin-bottom: 12px;
        border-radius: 4px;
        border: 1px solid #bdc3c7;
        box-sizing: border-box;
    }

    textarea {
        resize: vertical;
    }

    .radio-group {
        margin-bottom: 12px;
    }

    .radio-group label {
        font-weight: normal;
        margin-right: 10px;
    }
</style>
```

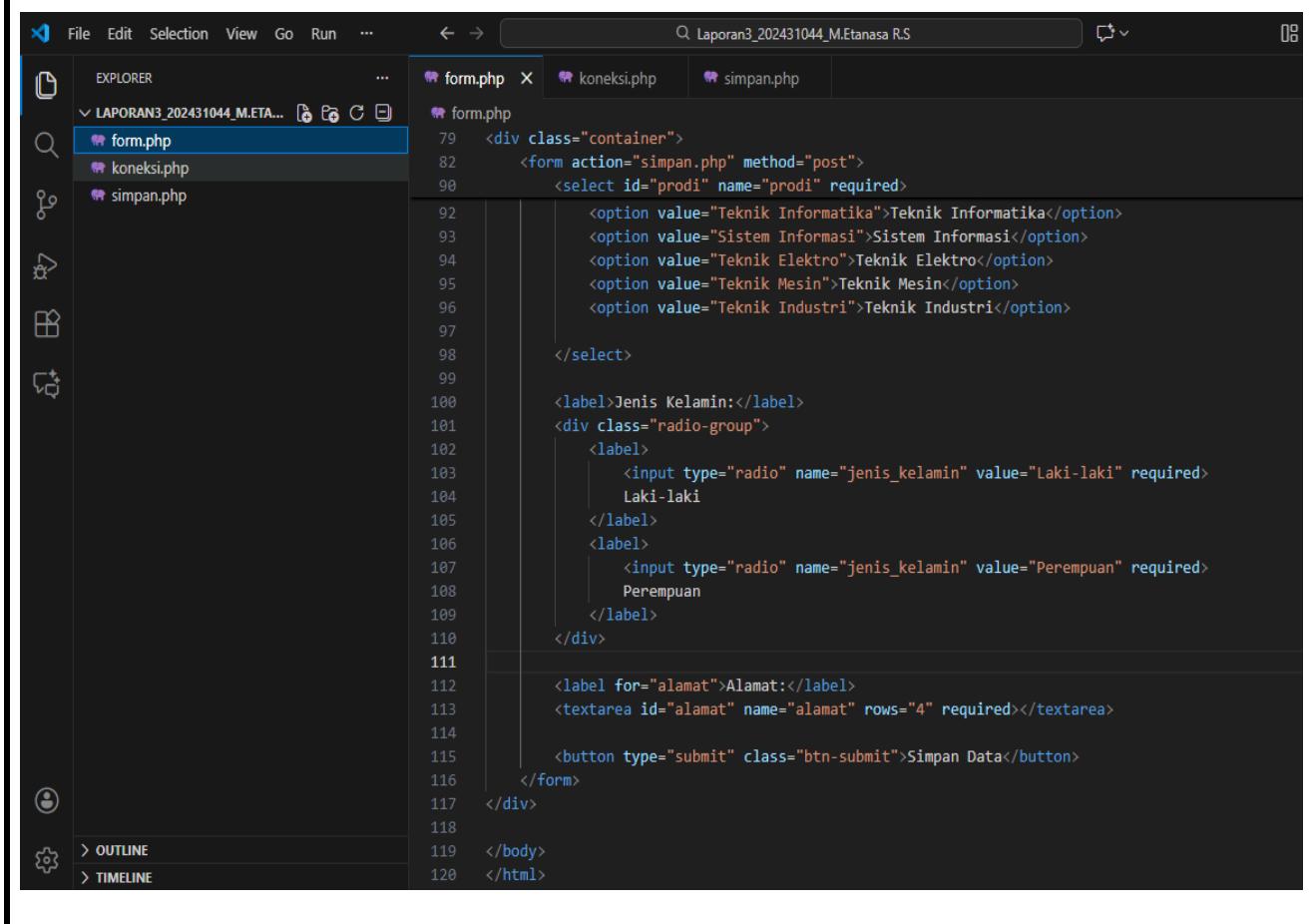


```
<head>
<style>
.btn-submit {
background-color: #27ae60;
color: #ffffff;
border: none;
padding: 10px 16px;
border-radius: 4px;
cursor: pointer;
font-weight: bold;
}
.btn-submit:hover {
background-color: #219150;
}
</style>
</head>
<body>

<div class="container">
<h2>Input Data Mahasiswa</h2>
<form action="simpan.php" method="post">
<label for="nim">NIM:</label>
<input type="text" id="nim" name="nim" required>

<label for="nama">Nama:</label>
<input type="text" id="nama" name="nama" required>

<label for="prodi">Program Studi:</label>
<select id="prodi" name="prodi" required>
<option value="">-- Pilih Program Studi --</option>
```



```
<div class="container">
<form action="simpan.php" method="post">
<select id="prodi" name="prodi" required>
<option value="Teknik Informatika">Teknik Informatika</option>
<option value="Sistem Informasi">Sistem Informasi</option>
<option value="Teknik Elektro">Teknik Elektro</option>
<option value="Teknik Mesin">Teknik Mesin</option>
<option value="Teknik Industri">Teknik Industri</option>
</select>

<label>Jenis Kelamin:</label>
<div class="radio-group">
<label>
<input type="radio" name="jenis_kelamin" value="Laki-laki" required>
Laki-laki
</label>
<label>
<input type="radio" name="jenis_kelamin" value="Perempuan" required>
Perempuan
</label>
</div>

<label for="alamat">Alamat:</label>
<textarea id="alamat" name="alamat" rows="4" required></textarea>

<button type="submit" class="btn-submit">Simpan Data</button>
</form>
</div>
</body>
</html>
```

### c. simpan.php

The screenshot shows a code editor interface with the following details:

- Title Bar:** Laporan3\_202431044\_M.Etanasa.RS
- File Explorer:** Shows files: form.php, koneksi.php, and simpan.php (which is selected).
- Code Area:**

```

<?php
include "koneksi.php";

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $nim      = mysqli_real_escape_string($koneksi, $_POST['nim']);
    $nama     = mysqli_real_escape_string($koneksi, $_POST['nama']);
    $prodi    = mysqli_real_escape_string($koneksi, $_POST['prodi']);
    $jenis_kelamin = mysqli_real_escape_string($koneksi, $_POST['jenis_kelamin']);
    $alamat   = mysqli_real_escape_string($koneksi, $_POST['alamat']);

    $sql = "INSERT INTO mahasiswa (nim, nama, prodi, jenis_kelamin, alamat)
            VALUES ('$nim', '$nama', '$prodi', '$jenis_kelamin', '$alamat')";

    $result = mysqli_query($koneksi, $sql);

    if (!$result) {
        die("Gagal menyimpan data: " . mysqli_error($koneksi));
    }

    $data = [
        'id'      => mysqli_insert_id($koneksi) > 0 ? mysqli_insert_id($koneksi) : '-',
        'nim'     => $nim,
        'nama'    => $nama,
        'prodi'   => $prodi,
        'jenis_kelamin' => $jenis_kelamin,
        'alamat'  => $alamat
    ];
} else {
    header("Location: form.php");
}

```
- Bottom Bar:** OUTLINE, TIMELINE

The screenshot shows a code editor interface with the following details:

- Title Bar:** Laporan3\_202431044\_M.Etanasa.RS
- File Explorer:** Shows files: form.php, koneksi.php, and simpan.php (which is selected).
- Code Area:**

```

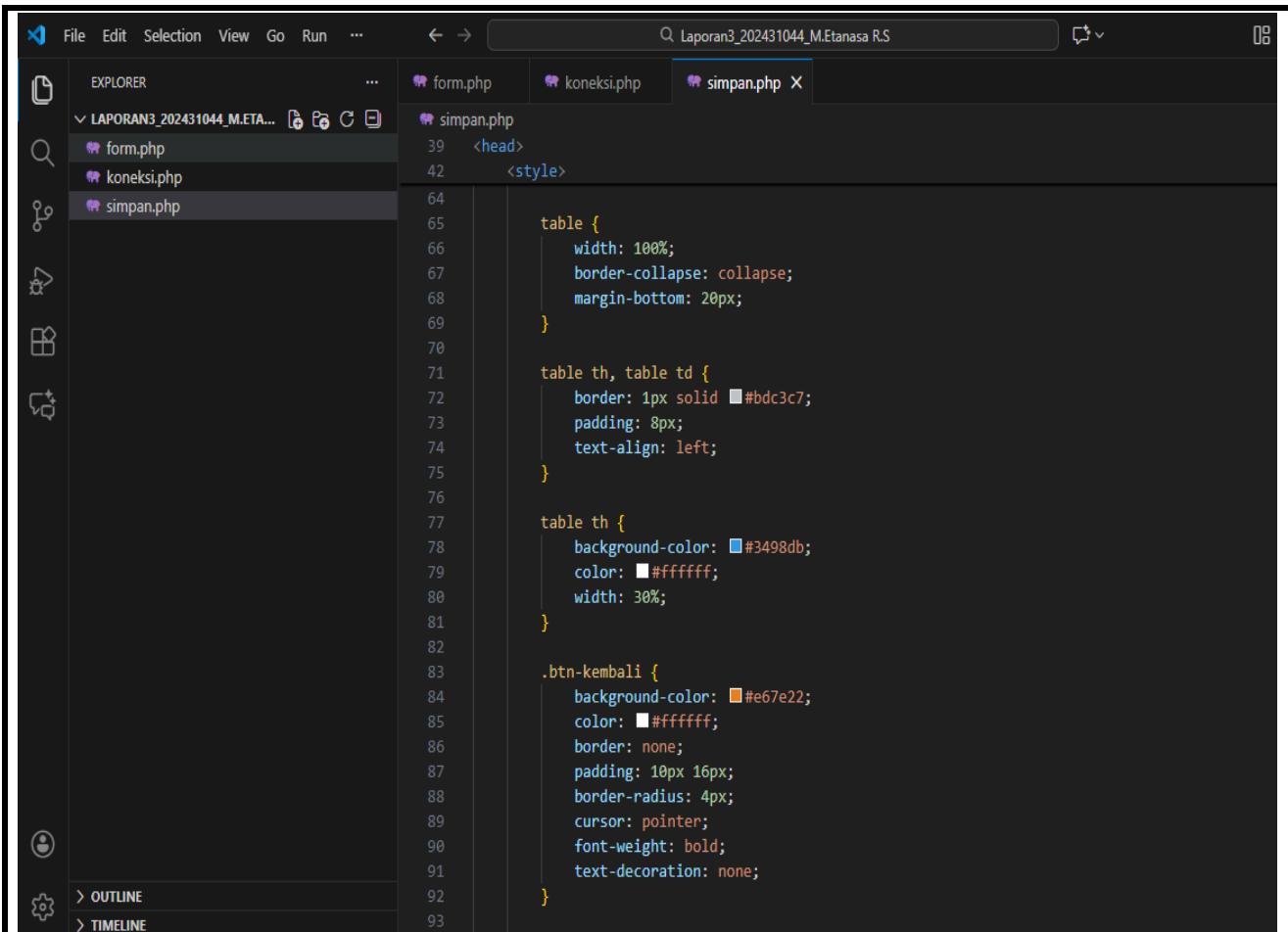
} else {
    exit();
}

<!DOCTYPE html>
<html lang="id">
<head>
    <meta charset="UTF-8">
    <title>Data Mahasiswa Tersimpan</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #ecf0f1;
            margin: 0;
            padding: 0;
        }

        .container {
            width: 600px;
            margin: 40px auto;
            background: #ffffff;
            padding: 20px 30px;
            border-radius: 8px;
            box-shadow: 0 0 8px rgba(0,0,0,0.1);
        }

        h2 {
            text-align: center;
            margin-bottom: 20px;
            color: #2c3e50;
        }
    </style>

```
- Bottom Bar:** OUTLINE, TIMELINE



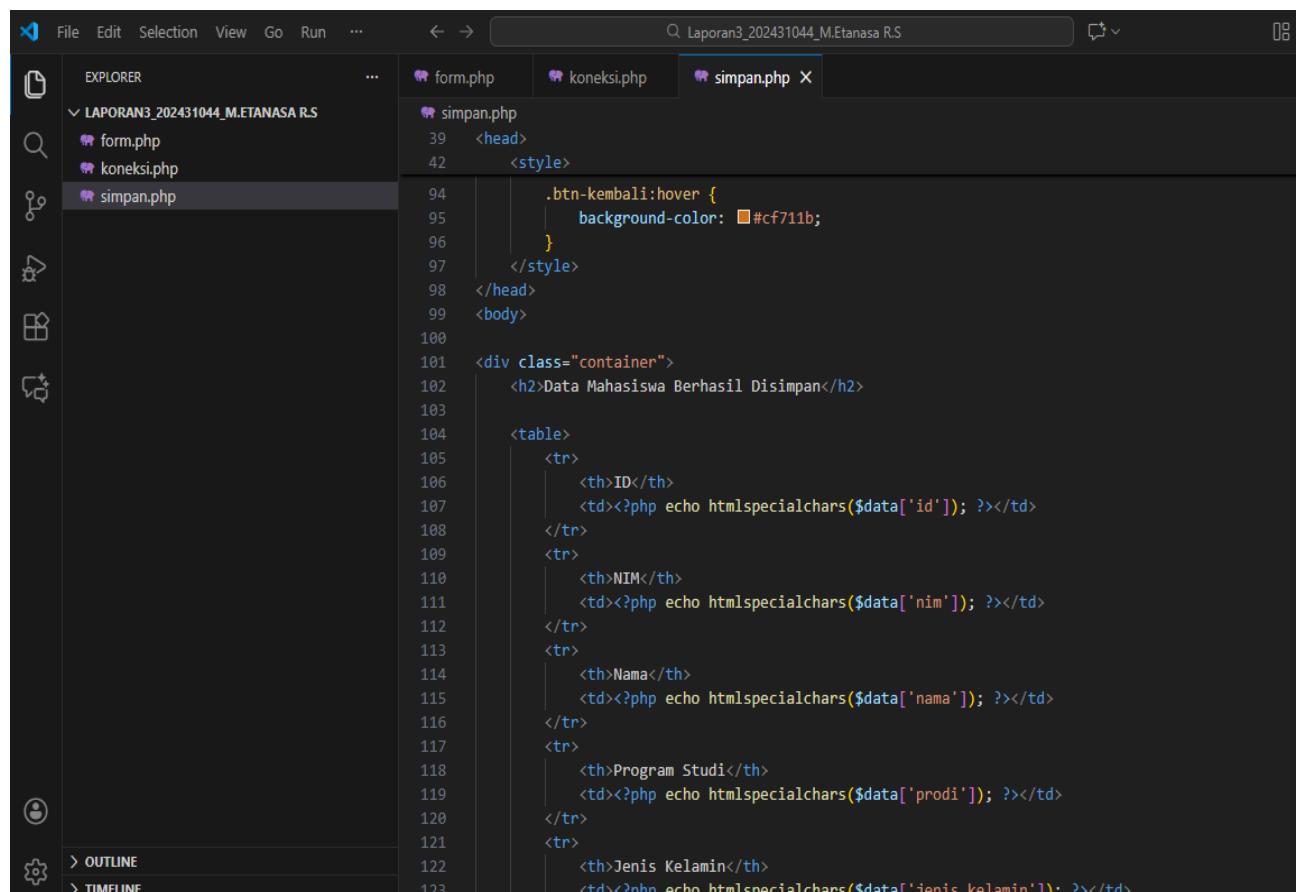
```
form.php  koneksi.php  simpan.php X
<head>
<style>
table {
    width: 100%;
    border-collapse: collapse;
    margin-bottom: 20px;
}

table th, table td {
    border: 1px solid #bdc3c7;
    padding: 8px;
    text-align: left;
}

table th {
    background-color: #3498db;
    color: #ffffff;
    width: 30%;
}

.btn-kembali {
    background-color: #e67e22;
    color: #ffffff;
    border: none;
    padding: 10px 16px;
    border-radius: 4px;
    cursor: pointer;
    font-weight: bold;
    text-decoration: none;
}

```



```
form.php  koneksi.php  simpan.php X
<head>
<style>
.btn-kembali:hover {
    background-color: #cf711b;
}
</style>
</head>
<body>

<div class="container">
    <h2>Data Mahasiswa Berhasil Disimpan</h2>

    <table>
        <tr>
            <th>ID</th>
            <td><?php echo htmlspecialchars($data['id']); ?></td>
        </tr>
        <tr>
            <th>NIM</th>
            <td><?php echo htmlspecialchars($data['nim']); ?></td>
        </tr>
        <tr>
            <th>Nama</th>
            <td><?php echo htmlspecialchars($data['nama']); ?></td>
        </tr>
        <tr>
            <th>Program Studi</th>
            <td><?php echo htmlspecialchars($data['prodi']); ?></td>
        </tr>
        <tr>
            <th>Jenis Kelamin</th>
            <td><?php echo htmlspecialchars($data['jenis_kelamin']); ?></td>
        </tr>
    </table>
</div>

```

The screenshot shows a code editor interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Search Bar:** Laporan3\_202431044\_M.Etanasa.R.S
- Explorer:** Shows a folder structure under LAPORAN3\_202431044\_M.Etanasa.R.S containing form.php, koneksi.php, simpan.php, and simpan.php (selected).
- Code Editor:** Displays the content of simpan.php.

```
101 <div class="container">
104   <table>
124     </tr>
125     <tr>
126       <th>Alamat</th>
127       <td><?php echo nl2br(htmlspecialchars($data['alamat'])); ?></td>
128     </tr>
129   </table>
130
131   <a href="form.php" class="btn-kembali">Input Data Lagi</a>
132 </div>
133
134 </body>
135 </html>
```

### 3. Xampp

#### a. tampilan form

The screenshot shows a web page titled "Input Data Mahasiswa" with the following fields:

- NIM:** (Text input field)
- Nama:** (Text input field)
- Program Studi:** (Select dropdown menu with placeholder "-- Pilih Program Studi --")
- Jenis Kelamin:** (Radio button group)
  - Laki-laki
  - Perempuan
- Alamat:** (Text area)
- Simpan Data** (Green button at the bottom left)

**b. tampilan hasil simpan.**

**Data Mahasiswa Berhasil Disimpan**

ID	-
NIM	202431044
Nama	Muhammad Etanasa Raihan Surya
Program Studi	Teknik Informatika
Jenis Kelamin	Laki-laki
Alamat	Jakarta

**Input Data Lagi**