

LAPORAN PRAKTIKUM-3 PEMROGRAMAN WEB



SOFTWARE ENGINEERING
LABORATORY

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TEKNIK INFORMATIKA
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2025

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. The 'Structure' tab is selected, displaying a table named 'mahasiswa' with 2 rows. The table's structure is shown as follows:

Table	Action	Rows	Type	Collation	Size
<input type="checkbox"/> mahasiswa		2	InnoDB	utf8mb4_general_ci	16.0 KiB
1 table	Sum	2	InnoDB	utf8mb4_general_ci	16.0 KiB

Below the table list, there is a 'Create new table' button and a form to create a new table with fields for 'Table name' and 'Number of columns' (set to 4).

The screenshot shows the phpMyAdmin interface for the 'Table: mahasiswa'. The 'Table: mahasiswa' tab is selected, displaying the table's structure and data. The table's structure is shown as follows:

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

The interface also shows the 'Query results operations' section with buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

• Membuat tabel mahasiswa

The screenshot shows the phpMyAdmin interface for the 'db_mahasiswa' database. The 'Table structure' tab is selected for the 'mahasiswa' table. The table structure is as follows:

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

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', and 'Spatial'. There is also a 'Fulltext' option and buttons to 'Add to central columns' and 'Remove from central columns'. At the bottom, there is a section for 'Indexes' with a message: 'No index defined!'.

2. Kode Lengkap Setiap File

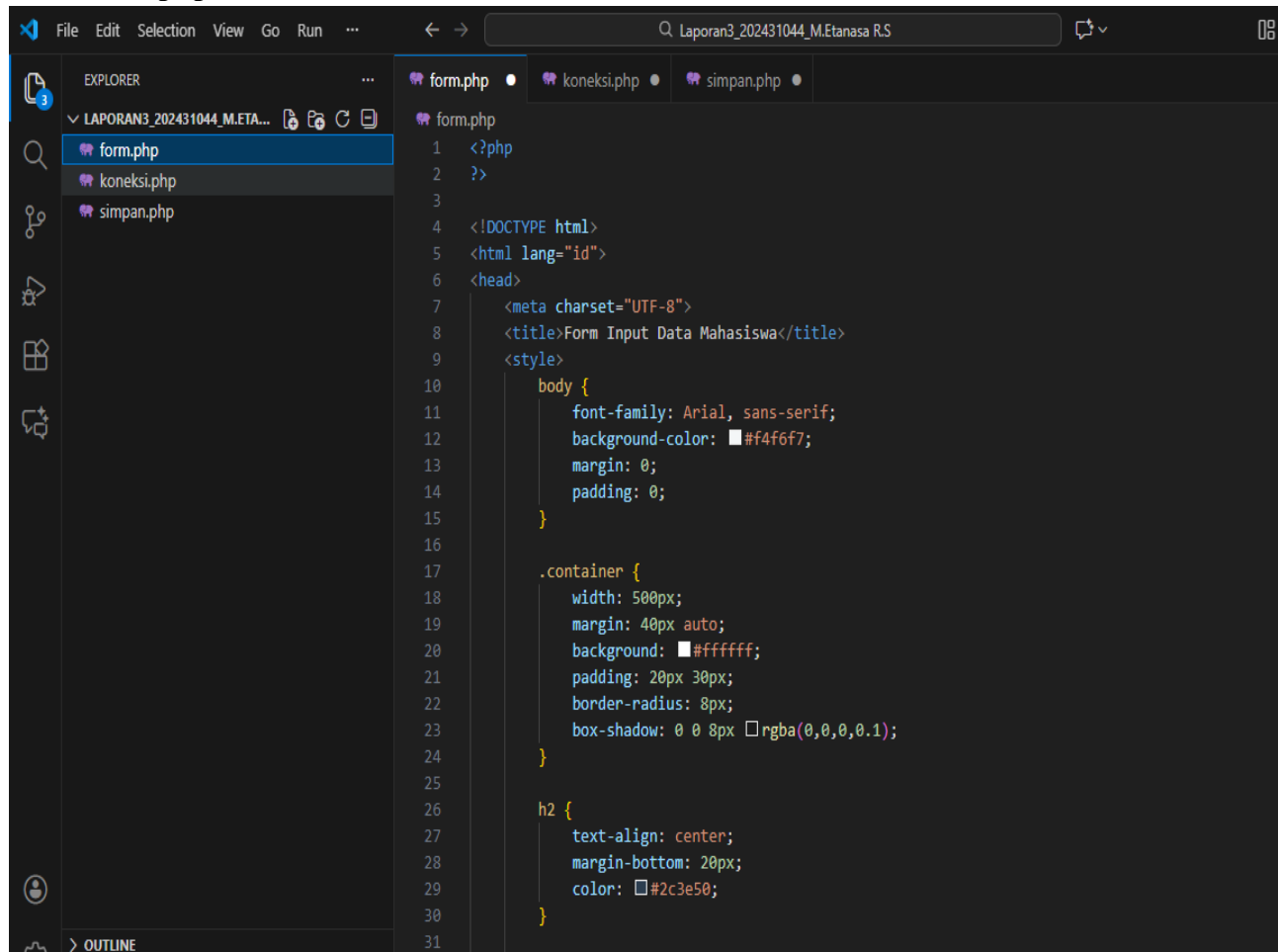
a. koneksi.php

The screenshot shows a code editor with the 'koneksi.php' file open. The code is as follows:

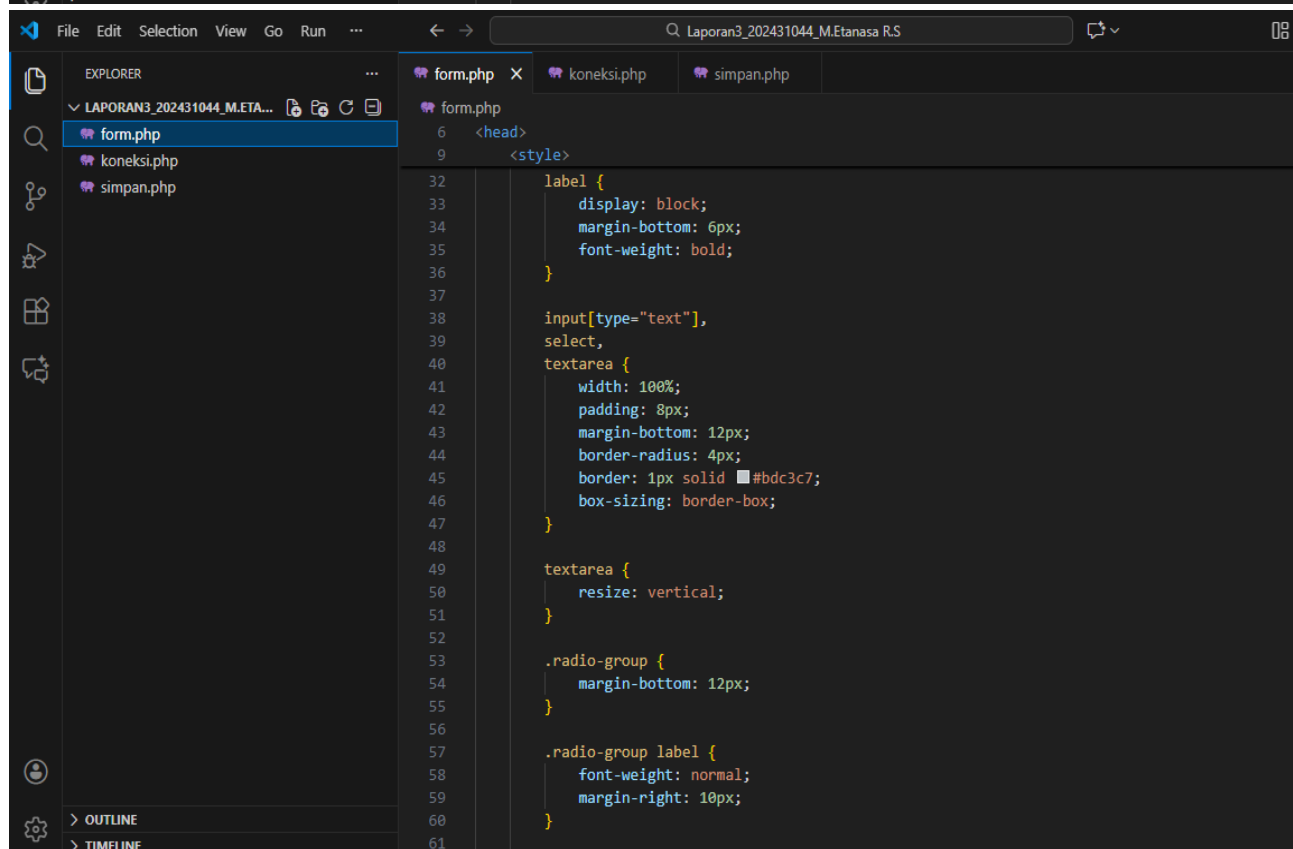
```

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

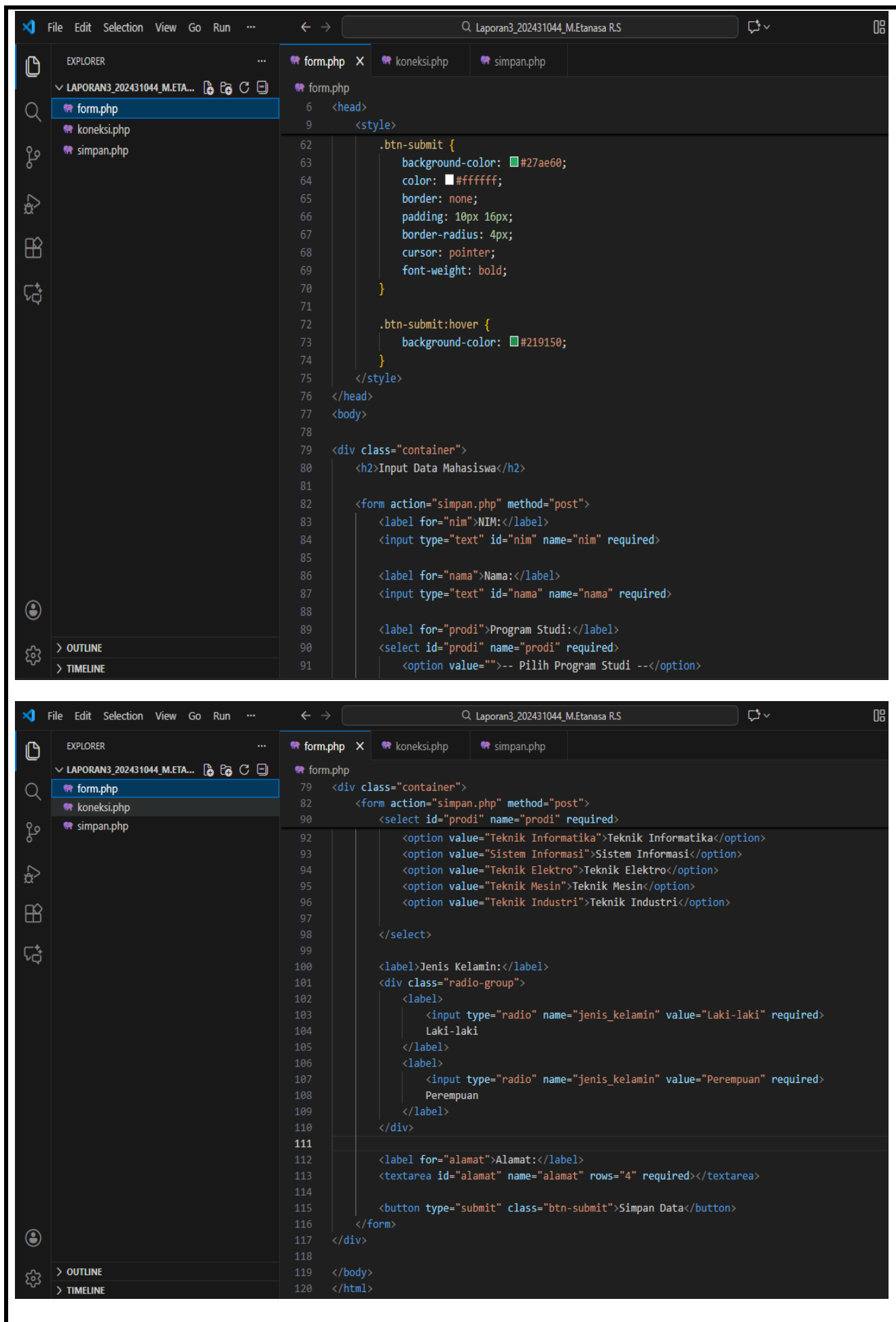
```

b. form.php

```
1 <?php
2 ?>
3
4 <!DOCTYPE html>
5 <html lang="id">
6 <head>
7     <meta charset="UTF-8">
8     <title>Form Input Data Mahasiswa</title>
9     <style>
10         body {
11             font-family: Arial, sans-serif;
12             background-color: #f4f6f7;
13             margin: 0;
14             padding: 0;
15         }
16
17         .container {
18             width: 500px;
19             margin: 40px auto;
20             background: #ffffff;
21             padding: 20px 30px;
22             border-radius: 8px;
23             box-shadow: 0 0 8px rgba(0,0,0,0.1);
24         }
25
26         h2 {
27             text-align: center;
28             margin-bottom: 20px;
29             color: #2c3e50;
30         }
31     </style>
```



```
6 <head>
9 <style>
32     label {
33         display: block;
34         margin-bottom: 6px;
35         font-weight: bold;
36     }
37
38     input[type="text"],
39     select,
40     textarea {
41         width: 100%;
42         padding: 8px;
43         margin-bottom: 12px;
44         border-radius: 4px;
45         border: 1px solid #bdc3c7;
46         box-sizing: border-box;
47     }
48
49     textarea {
50         resize: vertical;
51     }
52
53     .radio-group {
54         margin-bottom: 12px;
55     }
56
57     .radio-group label {
58         font-weight: normal;
59         margin-right: 10px;
60     }
61 }
```



```
File Edit Selection View Go Run ...  Laporan3_202431044_M.Etanasa R.S 06
EXPLORER
  LAPORAN3_202431044_M.ETA...
    form.php
    koneksi.php
    simpan.php
form.php
6  <head>
9  <style>
62  .btn-submit {
63      background-color: #27ae60;
64      color: #ffffff;
65      border: none;
66      padding: 10px 16px;
67      border-radius: 4px;
68      cursor: pointer;
69      font-weight: bold;
70  }
71
72  .btn-submit:hover {
73      background-color: #219150;
74  }
75  </style>
76  </head>
77  <body>
78
79  <div class="container">
80      <h2>Input Data Mahasiswa</h2>
81
82      <form action="simpan.php" method="post">
83          <label for="nim">NIM:</label>
84          <input type="text" id="nim" name="nim" required>
85
86          <label for="nama">Nama:</label>
87          <input type="text" id="nama" name="nama" required>
88
89          <label for="prodi">Program Studi:</label>
90          <select id="prodi" name="prodi" required>
91              <option value="">-- Pilih Program Studi --</option>
92
93
94
95
96
97
98  </select>
99
100  <label>Jenis Kelamin:</label>
101  <div class="radio-group">
102      <label>
103          <input type="radio" name="jenis_kelamin" value="Laki-laki" required>
104          Laki-laki
105      </label>
106      <label>
107          <input type="radio" name="jenis_kelamin" value="Perempuan" required>
108          Perempuan
109      </label>
110  </div>
111
112  <label for="alamat">Alamat:</label>
113  <textarea id="alamat" name="alamat" rows="4" required></textarea>
114
115  <button type="submit" class="btn-submit">Simpan Data</button>
116  </form>
117  </div>
118
119  </body>
120  </html>
```

c. simpan.php

```

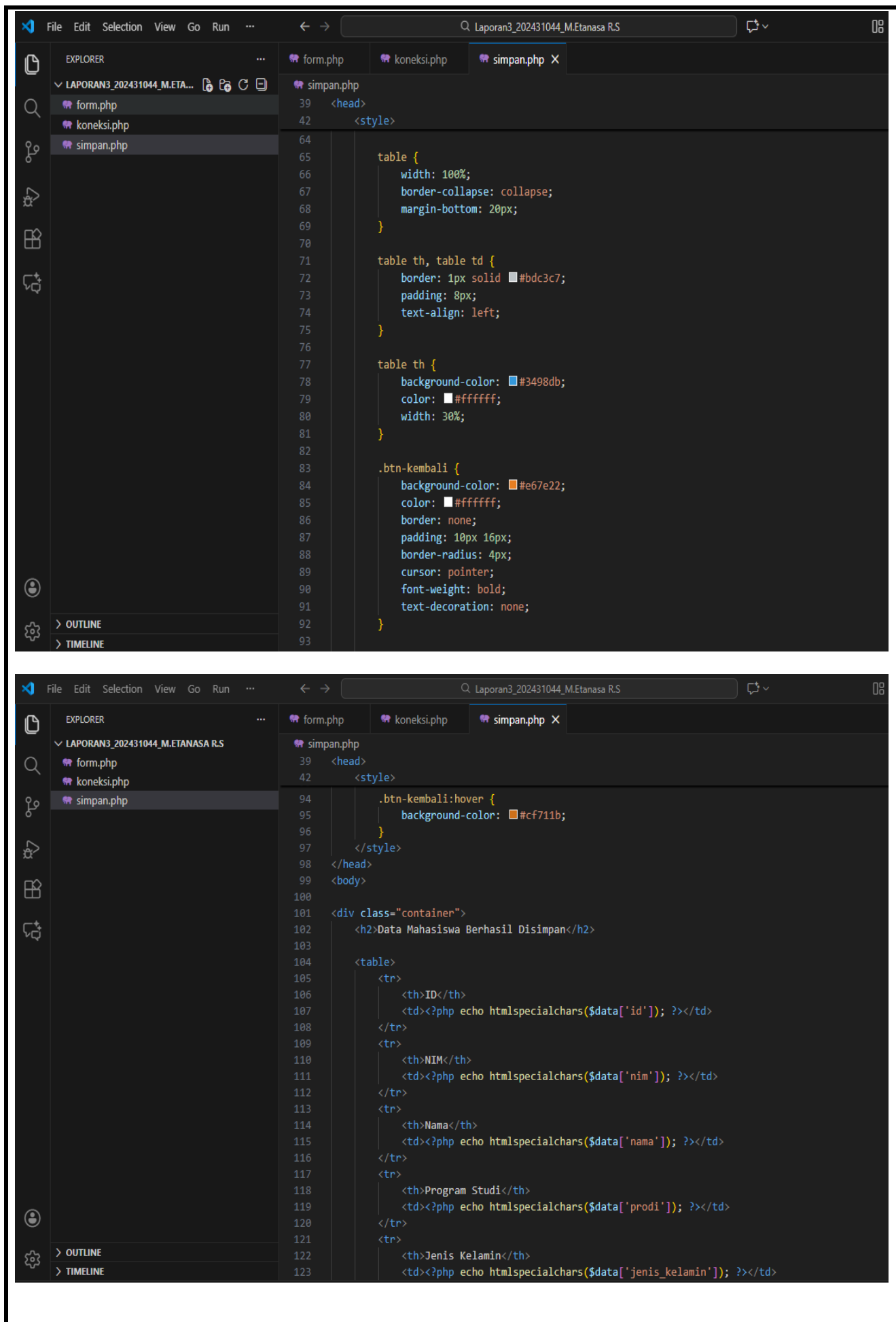
File Edit Selection View Go Run ...  Laporan3_202431044_M.Etanasa R.S
EXPLORER
  LAPORAN3_202431044_M.ETA...
    form.php
    koneksi.php
    simpan.php
form.php koneksi.php simpan.php X
simpan.php
1 <?php
2
3 include "koneksi.php";
4
5 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
6
7     $nim       = mysqli_real_escape_string($koneksi, $_POST['nim']);
8     $nama      = mysqli_real_escape_string($koneksi, $_POST['nama']);
9     $prodi     = mysqli_real_escape_string($koneksi, $_POST['prodi']);
10    $jenis_kelamin = mysqli_real_escape_string($koneksi, $_POST['jenis_kelamin']);
11    $alamat    = mysqli_real_escape_string($koneksi, $_POST['alamat']);
12
13    $sql = "INSERT INTO mahasiswa (nim, nama, prodi, jenis_kelamin, alamat)
14          VALUES ('$nim', '$nama', '$prodi', '$jenis_kelamin', '$alamat')";
15
16    $result = mysqli_query($koneksi, $sql);
17
18    if (!$result) {
19        die("Gagal menyimpan data: " . mysqli_error($koneksi));
20    }
21
22    $data = [
23        'id'       => mysqli_insert_id($koneksi) > 0 ? mysqli_insert_id($koneksi) : '-',
24        'nim'      => $nim,
25        'nama'     => $nama,
26        'prodi'    => $prodi,
27        'jenis_kelamin' => $jenis_kelamin,
28        'alamat'   => $alamat
29    ];
30
31 } else {
32     header("Location: form.php");

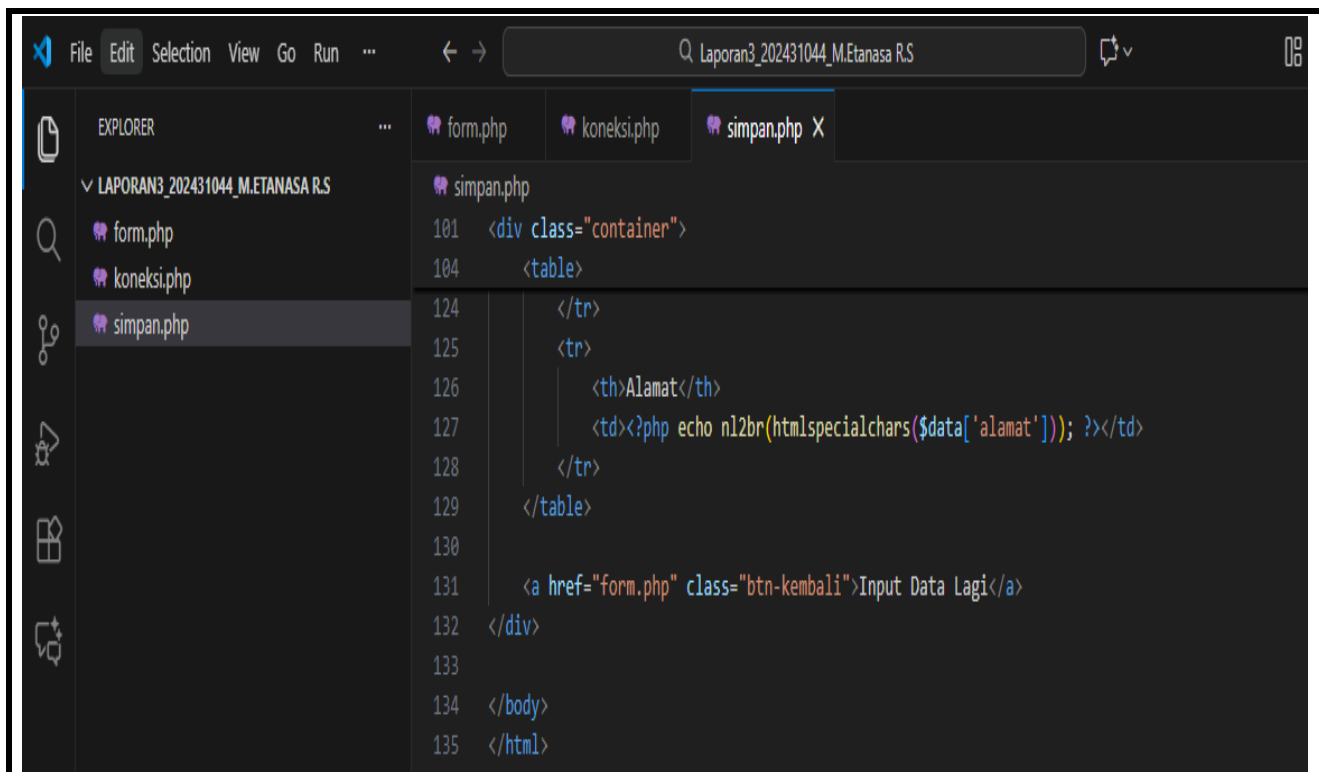
```

```

File Edit Selection View Go Run ...  Laporan3_202431044_M.Etanasa R.S
EXPLORER
  LAPORAN3_202431044_M.ETA...
    form.php
    koneksi.php
    simpan.php
form.php koneksi.php simpan.php X
simpan.php
31 } else {
32     exit();
33 }
34 }
35 ?>
36
37 <!DOCTYPE html>
38 <html lang="id">
39 <head>
40     <meta charset="UTF-8">
41     <title>Data Mahasiswa Tersimpan</title>
42     <style>
43         body {
44             font-family: Arial, sans-serif;
45             background-color: #ecf0f1;
46             margin: 0;
47             padding: 0;
48         }
49
50         .container {
51             width: 600px;
52             margin: 40px auto;
53             background: #ffffff;
54             padding: 20px 30px;
55             border-radius: 8px;
56             box-shadow: 0 0 8px rgba(0,0,0,0.1);
57         }
58
59         h2 {
60             text-align: center;
61             margin-bottom: 20px;
62             color: #2c3e50;
63     }

```



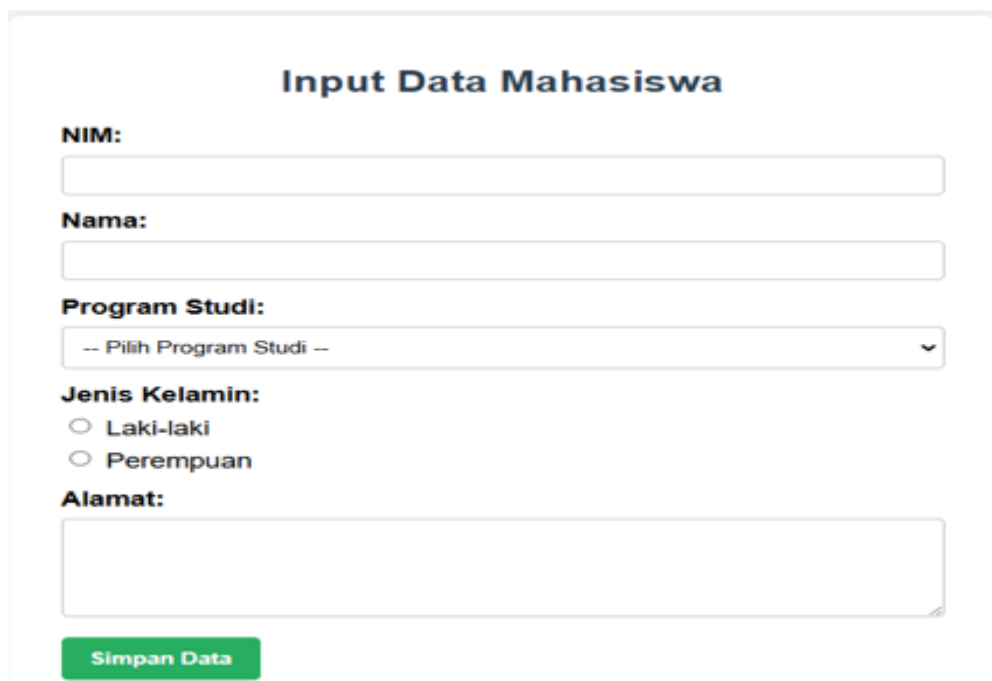


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project named 'LAPORAN3_202431044_M.ETANASA R.S' containing three files: 'form.php', 'koneksi.php', and 'simpan.php'. The 'simpan.php' file is selected and open in the main editor. The code in 'simpan.php' is as follows:

```
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 displays a web form titled 'Input Data Mahasiswa'. The form contains the following fields and controls:

- NIM:** A text input field.
- Nama:** A text input field.
- Program Studi:** A dropdown menu with the placeholder text '-- Pilih Program Studi --'.
- Jenis Kelamin:** Two radio button options: 'Laki-laki' and 'Perempuan'.
- Alamat:** A large text area for input.
- Simpan Data:** A green button at the bottom of the form.

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