Praktikum 1
OO-PHP MySQLi

1. Buat sebuah folder di local disk c/xampp/htdocs dengan nama **praktikum_01**
2. Download file bootstrap yang tersedia dilearning kemudian ekstrak ke dalam folder **praktikum_01**
3. Buatlah sebuah database dengan struktur sebagai berikut:
   - Nama database: db_akademik
   - Nama tabel: mahasiswa
   - Struktur tabel sebagai berikut:

#	Name	Type
☐ 1	nim	char(10)
☐ 2	nama	varchar(30)
☐ 3	alamat	varchar(20)
☐ 4	jurusan	char(30)

4. Buka text editor buat file baru simpan didalam folder praktikum3 dengan nama file **koneksi.php**, ketikkan kode berikut

```php
<?php
    Class Data{
        private $server = "localhost";
        private $username = "root";
        private $password;
        private $db = "db_akademik";
        private $conn;
        public function __construct(){
            try {
                $this->conn = new mysqli($this->server,$this->username,$this->password,$this->db);
            } catch (Exception $e) {
                echo "connection failed" . $e->getMessage();
            }
        }
        public function insert(){
            if (isset($_POST['submit'])) {
                if (isset($_POST['nim']) && isset($_POST['nama']) && isset($_POST['alamat']) && isset($_POST['jurusan'])) {
                    if (!empty($_POST['nim']) && !empty($_POST['nama']) && !empty($_POST['alamat']) && !empty($_POST['jurusan']) ) {

                        $nim = $_POST['nim'];
                        $nama = $_POST['nama'];
                        $alamat = $_POST['alamat'];
                        $jurusan = $_POST['jurusan'];
                        $query = "INSERT INTO mahasiswa (nim,nama,alamat,jurusan) VALUES ('$nim','$nama','$alamat','$jurusan')";
                        if ($sql = $this->conn->query($query)) {
                            echo "<script>alert('Data Berhasil Ditambah');</script>";
                            echo "<script>window.location.href = 'index.php';</script>";
                        }
```

```php
else{
						echo
"<script>alert('Gagal');</script>";
						echo
"<script>window.location.href = 'index.php';</script>";
					}
				}else{
					echo "<script>alert('Kosong');</script>";
					echo "<script>window.location.href =
'index.php';</script>";
				}
			}
		}
	}
	public function tampil(){
		$data = null;

		$query = "SELECT * FROM mahasiswa";
		if ($sql = $this->conn->query($query)) {
			while ($row = mysqli_fetch_assoc($sql)) {
				$data[] = $row;
			}
		}
		return $data;
	}
	public function delete($id){
		$query = "DELETE FROM mahasiswa where nim = '$id'";
		if ($sql = $this->conn->query($query)) {
			return true;
		}else{
			return false;
		}
	}
	public function edit($id){
		$data = null;
		$query = "SELECT * FROM mahasiswa WHERE nim = '$id'";
		if ($sql = $this->conn->query($query)) {
			while($row = $sql->fetch_assoc()){
				$data = $row;
			}
		}
		return $data;
	}
	public function update($data){
		$query = "UPDATE mahasiswa SET nama='$data[nama]',
alamat='$data[alamat]', jurusan='$data[jurusan]' WHERE nim='$data[id] '";
		if ($sql = $this->conn->query($query)) {
			return true;
		}else{
			return false;
		}
	}
}
?>
```

5. Buat file baru simpan didalam folder praktikum3 dengan nama file **index.php**, ketikkan kode berikut

```
<!doctype html>
<html lang="en">
 <head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css" >
  <title>PHP OOP</title>
 </head>
 <body>
  <div class="container">
   <div class="row">
    <div class="col-md-12 mt-5">
     <h2 class="text-center">CRUD OOP PADA PHP - TAMPIL DATA</h2>
     <hr style="height: 1px;color: black;background-color: black;">
     <a href="tambah.php" class="badge badge-success"> Tambah Data</a>
    </div>
   </div>
   <div class="row">
    <div class="col-md-12">
     <table class="table">
      <thead>
       <tr>
        <th>NO</th>
        <th>Nim</th>
        <th>Nama Mahasiswa</th>
        <th>Alamat</th>
        <th>Jurusan</th>
        <th>Action</th>
       </tr>
      </thead>
      <tbody>
```

```php
<?php
        include 'koneksi.php';
        $model = new Data();
        $rows = $model->tampil();
        $i = 1;
        if(!empty($rows)){
          foreach($rows as $row){
      ?>
      <tr>
       <td><?php echo $i++; ?></td>
       <td><?php echo $row['nim']; ?></td>
       <td><?php echo $row['nama']; ?></td>
       <td><?php echo $row['alamat']; ?></td>
       <td><?php echo $row['jurusan']; ?></td>
       <td>
         <a href="delete.php?id=<?php echo $row['nim']; ?>" class="badge badge-
danger">Delete</a>
         <a href="edit.php?id=<?php echo $row['nim']; ?>" class="badge badge-
success">Edit</a>
       </td>
      </tr>
      <?php
       }
      }else{
        echo "no data";
      }
       ?>
     </tbody>
    </table>
   </div>
  </div>
 </div>
 <!-- Optional JavaScript -->
 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
 </body>
</html>
```

6. Buat file baru simpan didalam folder praktikum3 dengan nama file **tambah.php**, ketikkan kode berikut

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">

    <title>PHP OOP</title>
  </head>
  <body>
    <div class="container">
      <div class="row">
        <div class="col-md-12 mt-5">
          <h2 class="text-center">CRUD OOP PADA PHP - TAMBAH DATA</h2>
          <hr style="height: 1px;color: black;background-color: black;">
        </div>
      </div>
      <div class="row">
        <div class="col-md-5 mx-auto">
          <?php

            include 'koneksi.php';
            $model = new Data();
            $insert = $model->insert();

          ?>
```

```html
<form action="" method="post">
        <div class="form-group">
          <label for="">Nim</label>
          <input type="text" name="nim" class="form-control">
        </div>
        <div class="form-group">
          <label for="">Nama Mahasiswa</label>
          <input type="text" name="nama" class="form-control">
        </div>
        <div class="form-group">
          <label for="">Alamat</label>
          <input type="text" name="alamat" class="form-control">
        </div>
        <div class="form-group">
          <label for="">Jurusan</label>
           <input type="text" name="jurusan" class="form-control">
        </div>
        <div class="form-group">
          <button type="submit" name="submit" class="btn btn-primary">Submit</button>
        </div>
      </form>
    </div>
   </div>
  </div>
  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
  </body>
</html>
```

7. Buat file baru simpan didalam folder praktikum3 dengan nama file **edit.php,** ketikkan kode berikut:

```php
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">

    <title>PHP OOP</title>
  </head>
  <body>
    <div class="container">
      <div class="row">
        <div class="col-md-12 mt-5">
          <h2 class="text-center">CRUD OOP PADA PHP - UBAH DATA</h2>
          <hr style="height: 1px;color: black;background-color: black;">
        </div>
      </div>
      <div class="row">
        <div class="col-md-5 mx-auto">
          <?php

            include 'koneksi.php';
            $model = new Data();
            $id = $_REQUEST['id'];
            $row = $model->edit($id);

            if (isset($_POST['update'])) {
             if (isset($_POST['nim']) && isset($_POST['nama']) && isset($_POST['alamat'])
&& isset($_POST['jurusan'])) {
                 if (!empty($_POST['nim']) && !empty($_POST['nama']) &&
!empty($_POST['alamat']) && !empty($_POST['jurusan']) ) {

                   $data['id'] = $id;
                   $data['nim'] = $_POST['nim'];
                   $data['nama'] = $_POST['nama'];
                   $data['alamat'] = $_POST['alamat'];
                   $data['jurusan'] = $_POST['jurusan'];

                   $update = $model->update($data);
```

```php
if($update){
            echo "<script>alert('Data Berhasil di Update');</script>";
            echo "<script>window.location.href = 'index.php';</script>";
          }else{
            echo "<script>alert('Data gagal di Update');</script>";
            echo "<script>window.location.href = 'index.php';</script>";
          }

        }else{
          echo "<script>alert('Kosong');</script>";
          header("Location: edit.php?id=$id");
        }
      }
    }

  ?>
  <form action="" method="post">
    <div class="form-group">
      <label for="">Nim</label>
      <input type="text" name="nim" value="<?php echo $row['nim']; ?>" class="form-control">
    </div>
    <div class="form-group">
      <label for="">Nama Mahasiswa</label>
      <input type="text" name="nama" value="<?php echo $row['nama']; ?>" class="form-control">
    </div>
    <div class="form-group">
      <label for="">Alamat</label>
      <input type="text" name="alamat" value="<?php echo $row['alamat']; ?>" class="form-control">
    </div>
    <div class="form-group">
      <label for="">Jurusan</label>
      <input type="text" name="jurusan" value="<?php echo $row['jurusan']; ?>" class="form-control">
    </div>
    <div class="form-group">
      <button type="submit" name="update" class="btn btn-primary">Submit</button>
    </div>
  </form>
 </div>
</div>
</div>
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
  </body>
</html>
```

8. Buat file baru simpan dengan nama file **delete.php,** ketikkan kode berikut:

```php
<?php

        include 'koneksi.php';
        $model = new Data();
        $id = $_REQUEST['id'];
        $delete = $model->delete($id);

        if ($delete) {
                echo "<script>alert('Data Berhasil Dihapus');</script>";
                echo "<script>window.location.href = 'index.php';</script>";
        }

?>
```

TUGAS

Buatlah operasi CRUD (Create, Read, Update, Delete) data menggunakan konsep OO-PHP pada salah satu fitur di aplikasi PBL anda masing-masing anggota tim membuat mengerjakan satu fitur. Upload hasil praktikum ke learning dalam bentuk **zip.**