



PRAKTIKUM BAHASA-BAHASA PEMROGRAMAN

PRAKTIKUM KE-14

Materi:

1. Class Constant
2. Membuat CRUD (Create Read Update Delete) dengan konsep OOP
3. Abstract Class

Praktikum Class Constant

Membuat dan mengakses Class Constant

```
1  <?php
2  class Produk {
3      public const KURSUSD = 15000;
4  }
5
6  echo Produk::KURSUSD;           // 15000
```

Class Contant tidak dapat diakses dari object

```
1  <?php
2  class Produk {
3      public const KURSUSD = 15000;
4  }
5
6  $produk01 = new Produk();
7  echo $produk01->KURSUSD;        // Warning: Undefined property: Produk::$KURSUSD
```

Bagaimana jika Contant dirubah menjadi private?

```
1  <?php
2  class Produk {
3      private const KURSUSD = 15000;
4  }
5
6  echo Produk::KURSUSD;
7  // Fatal error: Uncaught Error: Cannot access private const Produk::KURSUSD
```

Cara mengakses Contant dari dalam class

```

1 <?php
2 class Produk {
3     public $hargaUSD = 0;
4     private const KURSUSD = 15000;
5
6     public function hargaIDR() {
7         return $this->hargaUSD * self::KURSUSD;
8     }
9 }
10
11 $produk01 = new Produk();
12 $produk01->hargaUSD = 15;
13
14 echo $produk01->hargaIDR() // 225000
15

```

Praktikum Membuat CRUD Create Read Update Delete) dengan konsep OOP

1. Buatlah database dengan nama db_belajar
2. Jalankan SQL query ini dalam database db_belajar:

```

CREATE TABLE `tb_barang` (
  `id_barang` int(11) NOT NULL,
  `nama_barang` varchar(255) NOT NULL,
  `stok` int(11) NOT NULL,
  `harga_beli` int(11) NOT NULL,
  `harga_jual` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

INSERT INTO `tb_barang` (`id_barang`, `nama_barang`, `stok`, `harga_beli`,
`harga_jual`) VALUES
(1, 'Xiaomi Redmi Note 7', 10, 1999000, 2200000),
(2, 'Samsung M20', 7, 2520000, 2700000),
(4, 'Redmi Note 6', 20, 2200000, 2500000);

ALTER TABLE `tb_barang`
  ADD PRIMARY KEY (`id_barang`);

ALTER TABLE `tb_barang`
  MODIFY `id_barang` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
COMMIT;

```

3. Buat sebuah file Bernama koneksi.php

```

<?php
class database{

    var $host = "localhost";
    var $username = "root";
    var $password = "";
    var $database = "db_belajar";
    var $koneksi = "";
    function __construct(){
        $this->koneksi = mysqli_connect($this->host, $this->username, $this->password,$this->database);
        if (mysqli_connect_errno()){
            echo "Koneksi database gagal : " . mysqli_connect_error();
        }
    }

    function tampil_data()
    {
        $data = mysqli_query($this->koneksi,"select * from tb_barang");
        while($row = mysqli_fetch_array($data)){
            $hasil[] = $row;
        }
        return $hasil;
    }

    function tambah_data($nama_barang,$stok,$harga_beli,$harga_jual)
    {
        mysqli_query($this->koneksi,"insert into tb_barang values
('','$nama_barang','$stok','$harga_beli','$harga_jual')");
    }

    function get_by_id($id_barang)
    {
        $query = mysqli_query($this->koneksi,"select * from tb_barang where id_barang='$id_barang'");
        return $query->fetch_array();
    }

    function update_data($nama_barang,$stok,$harga_beli,$harga_jual,$id_barang)
    {
        $query = mysqli_query($this->koneksi,"update tb_barang set
nama_barang='$nama_barang',stok='$stok',harga_beli='$harga_beli',harga_jual='$harga_jual' where
id_barang='$id_barang'");
    }

    function delete_data($id_barang)
    {
        $query = mysqli_query($this->koneksi,"delete from tb_barang where id_barang='$id_barang'");
    }

}
?>

```

4. Buat file Bernama tampil_data.php

```
<?php
include('koneksi.php');
$db = new database();
$data_barang = $db->tampil_data();
?>
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
<a href="tambah_data.php">Tambah Data</a>
<table border="1">
    <tr>
        <th>No</th>
        <th>Barang</th>
        <th>Stok</th>
        <th>Harga Beli</th>
        <th>Harga Jual</th>
        <th>Action</th>
    </tr>
    <?php
    $no = 1;
    foreach($data_barang as $row){
        ?>
        <tr>
            <td><?php echo $no++; ?></td>
            <td><?php echo $row['nama_barang']; ?></td>
            <td><?php echo $row['stok']; ?></td>
            <td><?php echo $row['harga_beli']; ?></td>
            <td><?php echo $row['harga_jual']; ?></td>
            <td>
                <a href="edit.php?id=<?php echo $row['id_barang']; ?>">Update</a>
                <a href="proses_barang.php?action=delete&id=<?php echo
                $row['id_barang']; ?>">Delete</a>
            </td>
        </tr>
    <?php
    }
    ?>
</table>
</body>
</html>
```

5. Buat file tambah_data.php

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
<h3>Tambah Data Barang</h3>
<hr/>
<form method="post" action="proses_barang.php?action=add">
<table>
    <tr>
        <td>Nama Barang</td>
        <td>:</td>
        <td><input type="text" name="nama_barang"/></td>
    </tr>
    <tr>
        <td>Stok</td>
        <td>:</td>
        <td><input type="text" name="stok"/></td>
    </tr>
    <tr>
        <td>Harga Beli</td>
        <td>:</td>
        <td><input type="text" name="harga_beli"/></td>
    </tr>
    <tr>
        <td>Harga Jual</td>
        <td>:</td>
        <td><input type="text" name="harga_jual"/></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
        <td><input type="submit" name="tombol" value="Simpan"/></td>
    </tr>
</table>
</form>
</body>
</html>
```

6. Buat file proses_barang.php

```
<?php
include('koneksi.php');
$koneksi = new database();

$action = $_GET['action'];
if($action == "add")
{
    $koneksi->
    tambah_data($_POST['nama_barang'],$_POST['stok'],$_POST['harga_beli'],$_POST['harga_jual']);
    header('location:tampil_data.php');
}
elseif($action=="update")
{
    $koneksi->
    update_data($_POST['nama_barang'],$_POST['stok'],$_POST['harga_beli'],$_POST['harga_jual'],$_POST['id_barang']);
    header('location:tampil_data.php');
}
elseif($action=="delete")
{
    $id_barang = $_GET['id'];
    $koneksi->delete_data($id_barang);
    header('location:tampil_data.php');
}
?>
```

7. Buat edit.php

```

<?php
include('koneksi.php');
$db = new database();
$id_barang = $_GET['id'];
if(! is_null($id_barang))
{
    $data_barang = $db->get_by_id($id_barang);
}
else
{
    header('location:tampil_data.php');
}
?>
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
<h3>Update Data Barang</h3>
<hr/>
<form method="post" action="proses_barang.php?action=update">
<input type="hidden" name="id_barang" value="<?php echo $data_barang['id_barang']; ?>"/>
<table>
    <tr>
        <td>Nama Barang</td>
        <td>:</td>
        <td><input type="text" name="nama_barang" value="<?php echo $data_barang['nama_barang'];
?>"/></td>
    </tr>
    <tr>
        <td>Stok</td>
        <td>:</td>
        <td><input type="text" name="stok" value="<?php echo $data_barang['stok']; ?>"/></td>
    </tr>
    <tr>
        <td>Harga Beli</td>
        <td>:</td>
        <td><input type="text" name="harga_beli" value="<?php echo $data_barang['harga_beli']; ?>"/></td>
    </tr>
    <tr>
        <td>Harga Jual</td>
        <td>:</td>
        <td><input type="text" name="harga_jual" value="<?php echo $data_barang['harga_jual']; ?>"/></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
        <td><input type="submit" name="tombol" value="Update"/></td>
    </tr>
</table>
</form>
</body>
</html>

```

Praktikum Membuat CRUD Create Read Update Delete) ke 2

Ikuti tutorial dalam link berikut:

[Membuat Aplikasi CRUD dengan PHP dan MySQLi Konsep OOP \(yiisolution.my.id\)](http://yiisolution.my.id)

Praktikum Abstract Class

Membuat abstract class

```
1  abstract class Produk {
2      //... isi class di sini
3  }
```

Apakah abstract class dapat diinstansiasi?

```
1  <?php
2  abstract class Produk {
3  }
4
5  $produk01 = new Produk();
```

Penurunan abstract class

```
1  <?php
2  abstract class Produk {
3  }
4
5  class Televisi extends Produk{
6  }
7
8  $produk01 = new Televisi();
```

Abstract method

```
1  <?php
2  abstract class Produk {
3      abstract public function cekHarga();
4  }
```

....Terimakasih....