# PROJECT OBJECT ORIENTED PROGRAMMING (PEMROGRAMAN BERIORIENTASI OBJEK)

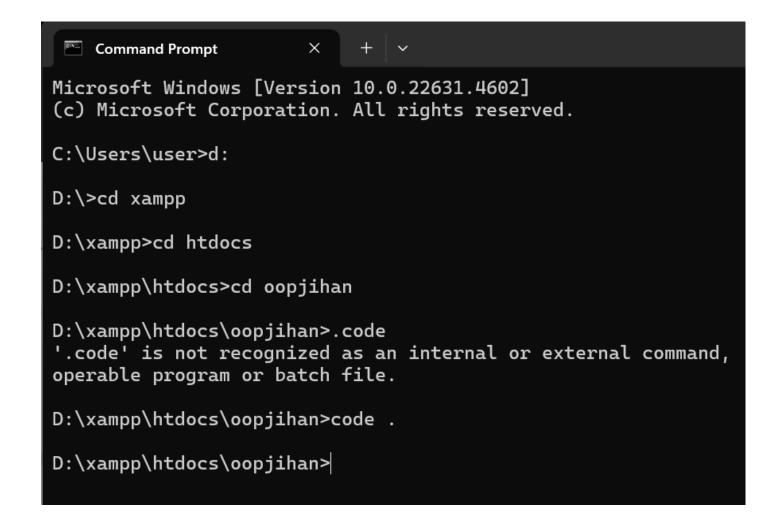


OLEH: JIHAN SYAFITRI NISN. 0083055957

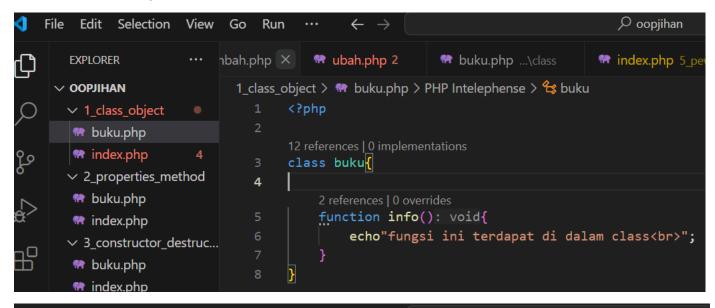
REKAYASA PERANGKAT LUNAK SMK NEGERI 1 KARANG BARU PEMERINTAH PROVINSI ACEH 2025

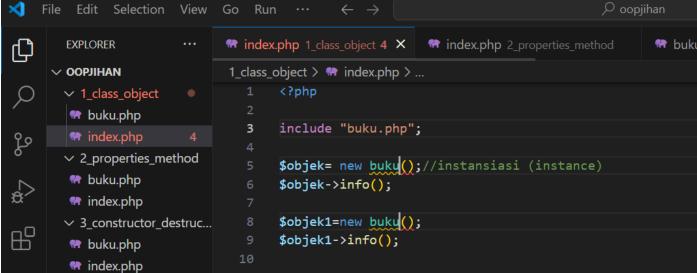
# a. Apa itu OOP?

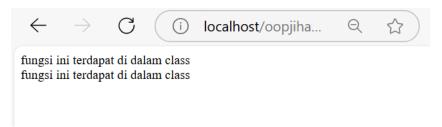
OOP merupakan suatu metode pemrograman yang berorientasi kepada objek. Dalam bahasa Indonesia OOP dikenal dengan PBO (Pemrograman Berorientasi Objek).



# 1. Class dan object







# 2. Properties dan method

```
X File
                                ndex.php 1_class_object 4 ×
                                                             EXPLORER
仚
                                2 properties method > 🐃 buku.php > ...

∨ OOPJIHAN

√ 1_class_object

        m buku.php
        👫 index.php
                                        class buku{

√ 2_properties_method

                                            //properties
        m buku.php
                                            var $judul;
        💏 index.php

√ 3_constructor_destruc...

                                            var $pengarang;
        m buku.php
                                            var $penerbit;
        m index.php

√ 4_encapsulation

        🗫 buku.php
        m index.php
                                            function cetakinfo(): void{

√ 5_pewarisan

                                                echo "judul:".$this->judul."<br>";
        😭 index.php
                                                echo "pengarang:".$this->pengarang."<br>';
echo "penerbit:".$this->penerbit."<br>';
        Koneksi.php

√ 6_overriding_final

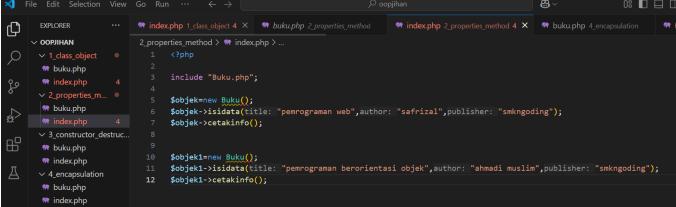
        ndex.php
         Koneksi.php
                                            function isidata($title,$author,$publisher): void{

√ 7 contoh

                                                $this->judul=$title;

✓ class

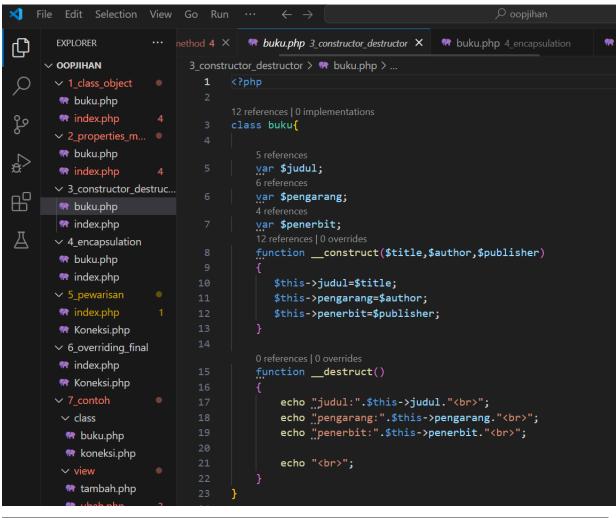
                                                 $this->pengarang=$author;
                                                $this->penerbit=$publisher;
          💏 buku.php
          koneksi.php
🗙 File Edit Selection View Go Run …
                                                                                                     83 ~
                                                                                                                    08 ■ □ □
      EXPLORER
                                                                         ndex.php 2_properties_method 4 X subuku.php 4_encapsulation
C
```

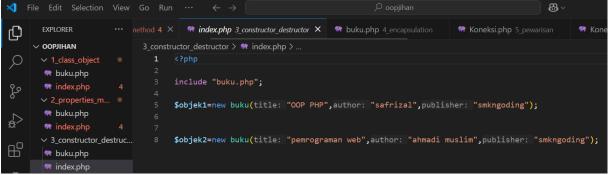


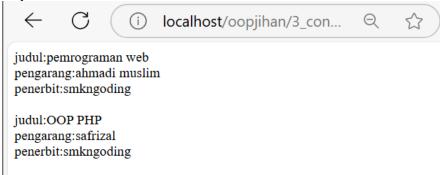
```
← C i localhost/oopjihan/2_pro... Q ☆

judul:pemrograman web
pengarang:safrizal
penerbit:smkngoding
judul:pemrograman berorientasi objek
pengarang:ahmadi muslim
penerbit:smkngoding
```

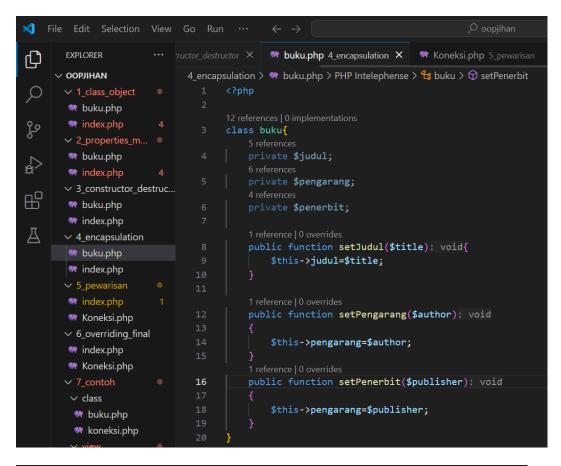
### 3. Constructor dan destructor

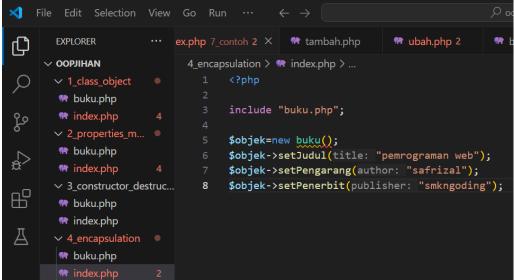






# 4. Encapsulation





localhost/oopjihan/4\_enc...

Output: ←

C

### 5. Pewarisan

```
EXPLORER
                       ••• ex.php 7_contoh 2
                                                tambah.php
                                                                  ubah.php 2
                                                                                   buku.php ...\class
                                                                                                         💏 index.ph
     ∨ OOPJIHAN
                              5_pewarisan > ♥ index.php > ...
       1_class_object
       m buku.php
                                     include 'Koneksi.php';
       😭 index.php
       2_properties_m...
                                     $objek=new Koneksi('localhost','root','','buku');
       m buku.php
                                     $objek->cekKoneksi();
       🕶 index.php
       3_constructor_destruc...
                                     $objek1=new Buku(title: 'localhost',author: 'root',publisher: '','buku');
       💏 buku.php
                                     $objek1->cekKoneksi();
       ndex.php
                                     $objek1->tambahBuku();
Д
       m buku.php
       ndex.php
```

```
EXPLORER
                                                                              * koneksi.php
                                                                                               entrolle
                       5_pewarisan > ♥ Koneksi.php > PHP Intelephense > ❤ Koneksi > ♦ cekKoneksi
V OOPJIHAN
  m buku.php
  ndex.php
                              class Koneksi{
                                 protected $server;
  m buku.php
  😭 index.php
                                 protected $username;
 ∨ 3_constructor_destruc...
  m buku.php
                                 protected $password;
  🕶 index.php
                                 protected $databases;
  m buku.php
  ndex.php
                                 public function __construct($server,$username,$password,$databases)

√ 5_pewarisan

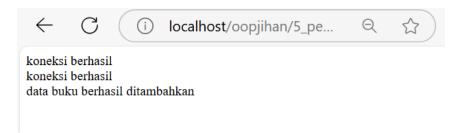
                                     $this->server=$server;
 👫 index.php
                                      $this->username=$username;
 Koneksi.php
                                     $this->password=$password;

√ 6_overriding_final

                                      $this->databases=$databases;
 😭 index.php
 Koneksi.php
                                  public function cekKoneksi(): void{

✓ class

                                      echo "koneksi berhasil<br>";
   m buku.php
                        19
  koneksi.php
   💏 tambah.php
                              class Buku extends Koneksi{
   🕶 ubah.php
  😭 index.php
                                  public function tambahBuku(): void{
 OUTLINE
                                      echo "data buku berhasil ditambahkan";
 TIMELINE
```



6. Overriding final

```
X File Edit Selection View
        EXPLORER
                                😭 index.php 6_overriding_final 1 🗙 💮 😭 Koneksi.php 6_overriding_final
                                                                                                koneksi.php
                                                                                                                   💏 con
ďЪ
      ∨ OOPJIHAN
                                6_overriding_final > * index.php > ...
        💏 buku.php
                                       include 'Koneksi.php';
        😭 index.php
        2_properties_m...
                                       $objek=new Koneksi('localhost','root','','buku');
        m buku.php
                                       $objek->cekKoneksi();

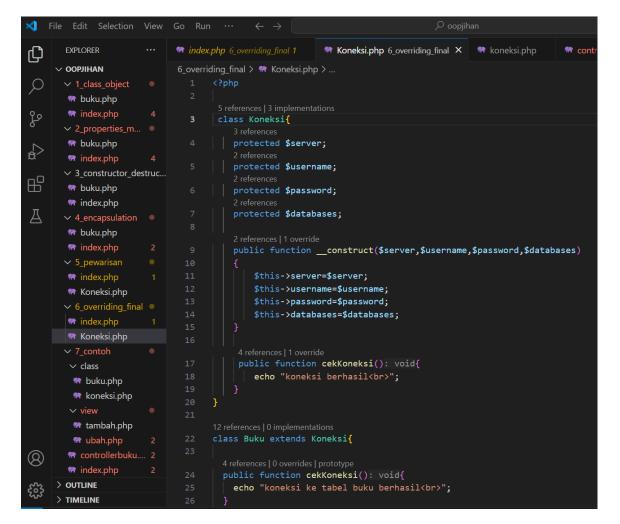
√ 3_constructor_destruc...

B
                                       $objek1=new Buku(title: 'localhost',author: 'root',publisher: '','buku');
        m buku.php
                                       $objek1->cekKoneksi();
        ndex.php
                                       $objek1->tambahBuku();
        buku.php

√ 5_pewarisan

        😭 index.php
        Koneksi.php

√ 6_overriding_final ●
```





# 7. Implementasi/contoh

Folder class:

• Buku.php

```
↑ ubah.php 2 
↑ buku.php ...\class × 
↑ index.php 5_pewarisan 1

                                                                              7_contoh > class > ₩ buku.php > PHP Intelephense > ♣ buku > ۞ tambahdata

1 <?php
                    ∨ OOPJIHAN
                    v 1_class_object
w buku.php
d index.php 4
v 2_properties_m...
w buku.php 4
v 3_constructor_destruc...
w buku.php
index.php 4
w index.php 4
v 3_constructor_destruc...
w buku.php
index.php 9
v index.php 9
v index.php 9
v index.php 4
v 2_references | 0 overrides
public_function_tampilse
squery="SELECT * FRO
$ squery="
                      1 class object
                                                                                                                            2 references | 0 overrides
   public function tampilsemua(): array | int{
                                                                                                                                                      $query="SELECT * FROM buku";
$sql=mysqli_query(mysql: $this->koneksi,query: $query);
                         🕶 index.php

√ 4_encapsulation

√ buku.php

√ index.php

√ 5_pewarisan

√ index.php

1

★ Koneksi.php
                                                                                                                                                      while($data=mysqli_fetch_array(result: $sql)){
    $datas[]=$data;
                                                                                                                                   }
if (isset($datas)){
return $datas;
}else{
return 0;
}
                           Koneksi.php
                           👭 Koneksi.php
                                                                                                                                 ⇔ buku.php⇔ koneksi.php✓ view
                          w ubah.php 2
controllerbuku.... 2
                                                                                                                                               1 reference | 0 overrides public function ubahdata($id,$judul,$pengarang,$penerbit): void{
                                                                                                                                                   $query="UPDATE buku SET judul'($judul)',pengarang='($pengarang)',penerbit='($penerbit)' WHERE id='($id)'
mysqli_query(mysql: $this->koneksi,query: $query);
> OUTLINE
```

```
1 reference | 0 overrides
public function hapusdata($id): void{
        $query="DELETE FROM buku WHERE id='{$id}'";
        mysqli_query(mysql: $this->koneksi,query: $query);
}
1 reference | 0 overrides
public function caridatabyid($id): array|bool|null{
        $query="SELECT * FROM buku WHERE id='{$id}'";
        $sql=mysqli_query(mysql: $this->koneksi,query: $query);
        $data=mysqli_fetch_assoc(result: $sql);
        return $data;
}
```

Koneksi.php

```
EXPLORER
                                 m koneksi.php X m controllerbuku.php 2
                                                                                                                                   w ubah.php 2
Ð
      V OOPJIHAN
        1 class object
                                     5 references | 3 imple
2 class koneksi{
         m buku.php
         🕶 buku.php
                                               private $database='oopjihan';
                                               protected $koneksi;
        index.php5_pewarisanindex.php
                                               public function __construct()
                                                    $this->koneksi=mysqli_connect(hostname: $this->server,username: $this->user,password: $this->pass,database: $
                                              4 references | 1 override
public function cekKoneksi(): void{
                                                   if (mysqli_connect_errno()){
   echo "koneksi gagal";
         🕶 Koneksi.php
                                                        echo "koneksi berhasil";
          m buku.php
          🕶 tambah.php
```

### Folder view:

• Tambah.php

```
OOPJIHAN
                              7_contoh > view > 🯶 tambah.php > 🛇 html > 🤣 body
                                    <!DOCTYPE html>

√ 1_class_object

Q
                                    <html lang="en">
        n buku.php
        👫 index.php
وړ
                                        <meta charset="UTF-8">

✓ 2_properties_m...

                                         <meta name="viewport" content="width=device-width, initial-scale=1.0">
        m buku.php
                                         <title>tambah data buku</title>
        ndex.php

√ 3_constructor_destruc...

B
                                         <form action="../controllerbuku.php?aksi=tambah" method="post">
        buku.php
                                             <label for="judul">judul</label>
        💏 index.php
                                             <input type="text" name="judul" id="judul">
                                             <label for="pengarang">pengarang</label>
        n buku.php
                                             <input type="text" name="pengarang" id="pengarang">
        ndex.php
                                             <label for="penerbit">penerbit</label>
                                             <input type="text" name="penerbit" id="penerbit">
                                             <input type="submit" value="simpan">
        ndex.php
                                         </form>
        Koneksi.php
                               18

√ 6_overriding_final ●

        Koneksi.php

✓ class

         m buku.php
         koneksi.php
         💏 tambah.php
```

Ubah.php

```
EXPLORER
ф
     1 <!DOCTYPE html>
2 <html lang="en">
      ∨ 1_class_object
Q
       👫 index.php

√ 2_properties_method

وړ
                                    <meta charset="UTF-8">
      🗫 buku.php
                                    <meta name="viewport" content="width=device-width, initial-scale=1.0">
      💝 index.php
                                     <title>tambah data buku</title>
A
      ∨ 3_constructor_destruc...
       💏 buku.php
B
       🐄 index.php

√ 4_encapsulation

                                     $objek=new buku();
       🗫 buku.php
                                     $data=$objek->caridatabyid($_GET['id'])
       🕶 index.php

√ 5_pewarisan

                                     <form action="../controllerbuku.php?aksi=ubah"</pre>
                                      method="post">
       🕶 index.php
                                         <input type="hidden" name="id" value="<?=$data['id']?>">
       Koneksi.php
                                         <label for="judul">judul</label>

√ 6_overriding_final

                                         <input type="text" name="judul" id="judul" value="<?=$data['judul']?>">
      💏 index.php
                                         <label for="pengarang">pengarang</label>
       Koneksi.php
                                         <input type="text" name="pengarang" id="pengarang" value="<?=$data['pengarang']?>">
                                         <label for="penerbit">penerbit</label>

✓ class

                                         <input type="text" name="penerbit" id="penerbit" value="<?=$data['penerbit']?>">
                                         <input type="submit" value="simpan">
        💏 buku.php
        💏 koneksi.php
       💏 tambah.php
       💏 ubah.php
```

# Folder controllerbuku.php

```
controllerbuku.php 1 X ndex.php 7_contoh
 EXPLORER
                                                                    tambah.php
                                                                                     buku.php ...\class
∨ OOPJIHAN

√ 1_class_object

  👫 index.php
                             include "class/buku.php";

√ 2_properties_method

                             $buku=new buku();
  💏 buku.php
                             $aksi=$_GET['aksi'];
  👫 index.php

√ 3_constructor_destruc...

                            if($aksi=='tambah'){
  buku.php
                       8 $buku->tambahdata(
                                  $_POST['judul'],
  💏 index.php
                            $_POST['pengarang'],

√ 4_encapsulation

                             $_POST['penerbit']
  💏 buku.php
  ndex.php

√ 5_pewarisan

                              }elseif($aksi=='hapus'){
  👫 index.php
                                  $buku->hapusdata($_GET['id']);
  Koneksi.php
                              }elseif($aksi=='ubah'){

√ 6_overriding_final

                                  $buku->ubahdata(
  💏 index.php
                                     $_POST['id'],
  Koneksi.php
                                     $_POST['judul'],
                                  $_POST['pengarang'],

✓ class

                                  $_POST['penerbit']
  💏 buku.php
                        24
   koneksi.php
                              header("location:index.php");
   💏 tambah.php
  💏 ubah.php
```

# Folder index.php

```
EXPLORER
                            controllerbuku.php 1
                                                   w buku.php ...\class
                                                                                                                                ndex.php 5_pewarisa
Ð
     ∨ OOPJIHAN
                             7_contoh > ♥ index.php > ♦ html > ♦ body > ♦ table > ♦ tbody
                             8 <html lang="en">
Q

√ 1 class object

       🕶 index.php

√ 2_properties_method

       e buku.php
                                       <a href="view/tambah.php">tambah data</a>
       🕶 index.php

√ 3_constructor_destruc...

       💏 buku.php
🕶 index.php
                                                   judul

√ 4_encapsulation

                                                   pengarang
       💏 buku.php
                                                   penerbit
       ndex.php

√ 5_pewarisan

       💝 index.php
        Koneksi.php
       \vee 6_overriding_final
                                               $no=1;
                                               $objek = new buku();
       🕶 index.php
                                               if ($objek->tampilsemua() != 0) {
       Koneksi.php
                                                   foreach ($objek->tampilsemua() as $data){
                                                       echo "

∨ class

                                                       $no
        💏 buku.php
                                                       $data[judul]
        koneksi.php
                                                       $data[pengarang]
                                                       $data[penerbit]
        💏 tambah.php
                                                       <a href='view/ubah.php?id=$data[id]'>ubah</a>
<a href='controllerbuku.php?aksi=hapus&id=$data[id]'> hapus</a>
                              43
     > OUTLINE
                                                       $no++;
     > TIMELINE
```



