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MATA KULIAH : PEMROGRAMAN BERORIENTASI OBJEK

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## 1. Listing Kode

```
<?php
```

```
// Class induk
```

```
class Elektronik {
```

```
    // Property dengan visibility
```

```
    public $merk;
```

```
    protected $warna;
```

```
    private $harga;
```

```
// Constructor
```

```
public function __construct($merk, $warna, $harga) {
```

```
    $this->merk = $merk;
```

```
    $this->warna = $warna;
```

```
    $this->harga = $harga;
```

```
}
```

```
// Method untuk menampilkan data
```

```
public function tampilInfo() {
```

```
    return "Merk: $this->merk, Warna: $this->warna, Harga: Rp$this->harga";
```

```
}
```

```
// Method protected
```

```
protected function statusElektronik() {
```

```
    return "Elektronik dalam kondisi aktif.";
```

```
}
```

```
// Method public untuk mengakses method protected
```

```
public function cekStatus() {
```

```

        return $this->statusElektronik();
    }
}

// Class turunan (Inheritance)
class Laptop extends Elektronik {
    public $ram;

    // Constructor class turunan
    public function __construct($merk, $warna, $harga, $ram) {
        parent::__construct($merk, $warna, $harga);
        $this->ram = $ram;
    }

    // Method overriding
    public function tampilInfo() {
        return parent::tampilInfo() . ", RAM: $this->ram GB";
    }

    // Method tambahan
    public function hidupkanLaptop() {
        return "Laptop berhasil dinyalakan.";
    }
}

// Membuat 5 objek
$laptop1 = new Laptop("Asus", "Hitam", 7000000, 8);
$laptop2 = new Laptop("Acer", "Silver", 6500000, 4);
$laptop3 = new Laptop("Lenovo", "Abu-Abu", 8000000, 16);
$laptop4 = new Laptop("HP", "Putih", 7500000, 8);
$laptop5 = new Laptop("Dell", "Biru", 9000000, 32);

```

```
// Menampilkan data
echo "<h2>Data Elektronik Laptop</h2>";

echo $laptop1->tampilInfo() . "<br>";
echo $laptop1->cekStatus() . "<br>";
echo $laptop1->hidupkanLaptop() . "<br><br>";

echo $laptop2->tampilInfo() . "<br>";
echo $laptop2->cekStatus() . "<br>";
echo $laptop2->hidupkanLaptop() . "<br><br>";

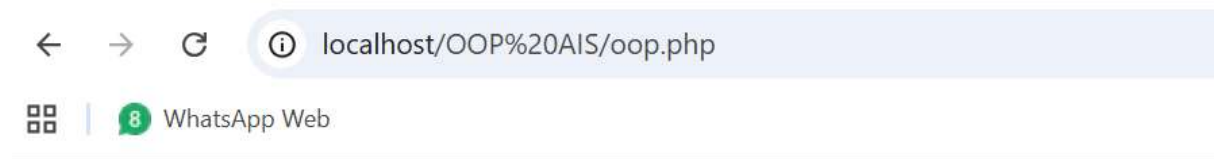
echo $laptop3->tampilInfo() . "<br>";
echo $laptop3->cekStatus() . "<br>";
echo $laptop3->hidupkanLaptop() . "<br><br>";

echo $laptop4->tampilInfo() . "<br>";
echo $laptop4->cekStatus() . "<br>";
echo $laptop4->hidupkanLaptop() . "<br><br>";

echo $laptop5->tampilInfo() . "<br>";
echo $laptop5->cekStatus() . "<br>";
echo $laptop5->hidupkanLaptop() . "<br><br>";

?>
```

## 2. Hasil



### **Data Elektronik Laptop**

Merk: Asus, Warna: Hitam, Harga: Rp7000000, RAM: 8 GB  
Elektronik dalam kondisi aktif.  
Laptop berhasil dinyalakan.

Merk: Acer, Warna: Silver, Harga: Rp6500000, RAM: 4 GB  
Elektronik dalam kondisi aktif.  
Laptop berhasil dinyalakan.

Merk: Lenovo, Warna: Abu-Abu, Harga: Rp8000000, RAM: 16 GB  
Elektronik dalam kondisi aktif.  
Laptop berhasil dinyalakan.

Merk: HP, Warna: Putih, Harga: Rp7500000, RAM: 8 GB  
Elektronik dalam kondisi aktif.  
Laptop berhasil dinyalakan.

Merk: Dell, Warna: Biru, Harga: Rp9000000, RAM: 32 GB  
Elektronik dalam kondisi aktif.  
Laptop berhasil dinyalakan.