Laporan Tugas Pemrograman Web Lanjut

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Mata Kuliah : Pemrograman Web Lanjut

Topik:

OOP - Object Oriented Programming Using PHP Language

Tabel Deskripsi:

Pertemuan	Isi Laporan
2	Dokumentasi hasil
	Source Code

Dokumentasi Hasil

```
Umur dihitung dengan rumus:
array(5) { ["nim"]=> string(14) "A11.2023.12345" ["nama"]=> string(21) "Aprilyani Nur Safitri" ["tgl_lahir"]=> string(10) "2000-01-17" ["umur"]=> int(25) ["status"]=> string(5) "Aktif" }

Nilai umur diberi langsung:
int(100) array(5) { ["nim"]=> string(14) "A11.2023.12345" ["nama"]=> string(21) "Aprilyani Nur Safitri" ["tgl_lahir"]=> string(10) "2000-01-17" ["umur"]=> int(100) ["status"]=> string(5) "Aktif" }
```

index.php

```
include "Mahasiswa.php";
include "Matakuliah.php";

$mahasiswa_1 = new Mahasiswa();
$makul_1 = new MataKuliah();

$mahasiswa_1->setData("A11.2023.12345", "Aprilyani Nur Safitri", "2000-01-17");

echo "Umur dihitung dengan rumus: <br> ";
var_dump($mahasiswa_1->getData());
echo "<br> ";
echo "<br> ";
echo "<br> "i]
echo "<br> ";

yar_dump($mahasiswa_1->umur diberi langsung: <br> ";

$mahasiswa_1->umur = 100;
yar_dump($mahasiswa_1->umur);
yar_dump($mahasiswa_1->getData());
```

index2.php

```
<?php
include "Mahasiswa.php";
include "MahasiswaTransfer.php";

$daftar_nilai = [
    "A22.123" => ['sks' => 2, 'nilai' => 'A'],
    "A22.456" => ['sks' => 3, 'nilai' => 'B'],
    "A22.789" => ['sks' => 2, 'nilai' => 'C'],
];

$mahasiswa_1 = new MahasiswaTransfer($daftar_nilai);

$mahasiswa_1->setData("A11.2023.12345", "Aprilyani Nur Safitri", "2000-01-17");
echo "";
print_r($mahasiswa_1->getData());
echo "";
```

mahasiswa.php (class mahasiswa)

```
<?php
class Mahasiswa
   private $nim;
   private $nama;
   private $tgl_lahir;
   public $status;
   public $umur;
   public function __construct()
       $this->status = 'Aktif';
   public function setData($nim, $nama, $tgl_lahir)
       $this->nim = $nim;
       $this->nama = $nama;
       $this->tgl_lahir = $tgl_lahir;
       $this->setUmur();
    }
   public function setUmur()
       $this->umur = date("Y") - substr($this->tgl_lahir, 0, 4);
    }
   public function getData()
       return [
            "nim" => $this->nim,
            "nama" => $this->nama,
            "tgl_lahir" => $this->tgl_lahir,
            "umur" => $this->umur,
            "status" => $this->status
```

mahasiswaTransfer.php (child dari class mahasiswa)

```
ada?>
class MahasiswaTransfer extends Mahasiswa
   private $daftar_nilai;
   private $ipk = 0, $tot_sks = 0, $jml_bobot = 0;
   private $bobot = ['A' => 4, 'B' =>3, 'C' => 2];
   public function __construct($daftar_nilai)
        $this->daftar_nilai = $daftar_nilai;
       $this->getIPK();
       $this->status = 'Aktif';
   public function getIPK()
       if (!empty($this->daftar_nilai)) {
            foreach ($this->daftar_nilai as $data) {
                $this->tot_sks += $data['sks'];
                $this->jml_bobot += $data['sks'] * $this->bobot[$data['nilai']];
            }
        $this->ipk = $this->jml_bobot / $this->tot_sks;
       return $this->ipk;
   public function getData() {
       return array_merge(parent::getData(), ["daftar_nilai" => $this->daftar_nilai,
"ipk" => round($this->ipk, 2)]);
```

MataKuliah.php (class MataKuliah)

```
<?php
class MataKuliah{
    private $kode;
    public $nama;

public function setData($kode, $nama){
        $this -> kode = $kode;
        $this -> nama = $nama;
    }
    public function getData(){
        return [$this->kode, $this->nama];
    }
}
```