

NAMA : GALANG ASRUL ANDIKA

NIM : 2024201013

MATKUL : PEMROGRAMAN BERORIENTASI OBJEK

1.KODE

```
<?php

require_once "koneksi.php";

/* =====
   INTERFACE
   ===== */

interface Penilaian {
    public function hitungKelayakan();
}

/* =====
   ABSTRACT CLASS
   ===== */

abstract class Bantuan {

    abstract public function statusPenerima();
}

/* =====
   PARENT CLASS
   ===== */

class Person {

    protected $nama;

    public function __construct($nama = "")
    {
        $this->nama = $nama;
    }

    public function getNama()
    {
        return $this->nama;
    }
}
```

```

}

/* =====
CHILD CLASS
===== */

class Siswa extends Person {

    private $nis;
    private $kelas;
    private $penghasilan;
    private $tanggungan;
    private $nilai;

    public function __construct(
        $nis,
        $nama,
        $kelas,
        $penghasilan,
        $tanggungan,
        $nilai
    )
    {
        parent::__construct($nama);

        $this->nis = $nis;
        $this->kelas = $kelas;
        $this->penghasilan = $penghasilan;
        $this->tanggungan = $tanggungan;
        $this->nilai = $nilai;
    }

    public function getNis()
    {
        return $this->nis;
    }

    public function getKelas()
    {
        return $this->kelas;
    }

    public function getPenghasilan()
    {
        return $this->penghasilan;
    }

```

```

    }

    public function getTanggungan()
    {
        return $this->tanggungan;
    }

    public function getNilai()
    {
        return $this->nilai;
    }
}

/* =====
   CLASS CRUD
   ===== */

class PenerimaBantuan extends Bantuan
implements Penilaian {

    private $db;

    public function __construct()
    {
        $database = new Database();
        $this->db = $database->conn;
    }

    public function hitungKelayakan(
        $penghasilan = 0,
        $tanggungan = 0,
        $nilai = 0
    )
    {
        if(
            $penghasilan <= 2000000 &&
            $tanggungan >= 3 &&
            $nilai >= 75
        ){
            return "Layak";
        }

        return "Tidak Layak";
    }
}

```

```

public function statusPenerima()
{
    return "Penerima Bantuan";
}

public function tambah($siswa)
{
    $status = $this->hitungKelayakan(
        $siswa->getPenghasilan(),
        $siswa->getTanggungan(),
        $siswa->getNilai()
    );

    $sql = "INSERT INTO siswa
(nis,nama,kelas,penghasilan_ortu,
jumlah_tanggungan,nilai_rata,status_bantuan)

VALUES (?, ?, ?, ?, ?, ?, ?)";

    $stmt = $this->db->prepare($sql);

    return $stmt->execute([
        $siswa->getNis(),
        $siswa->getNama(),
        $siswa->getKelas(),
        $siswa->getPenghasilan(),
        $siswa->getTanggungan(),
        $siswa->getNilai(),
        $status
    ]);
}

public function tampil()
{
    $sql = "SELECT * FROM siswa";
    return $this->db
->query($sql)
->fetchAll(PDO::FETCH_ASSOC);
}

public function hapus($id)
{
    $stmt = $this->db

```

```

        ->prepare("DELETE FROM siswa WHERE id=?");

        return $stmt->execute([$id]);
    }
}

/* =====
PROSES
===== */

$obj = new PenerimaBantuan();

if(isset($_POST['simpan'])){

    $siswa = new Siswa(
        $_POST['nis'],
        $_POST['nama'],
        $_POST['kelas'],
        $_POST['penghasilan'],
        $_POST['tanggungan'],
        $_POST['nilai']
    );

    $obj->tambah($siswa);
}

if(isset($_GET['hapus'])){
    $obj->hapus($_GET['hapus']);
}

$data = $obj->tampil();

?>

<!DOCTYPE html>
<html>
<head>

<title>Aplikasi Bantuan Siswa</title>

<style>

body{
font-family:Arial;
background:#f4f4f4;

```

```
}
```

```
.container{  
width:90%;  
margin:auto;  
background:white;  
padding:20px;  
margin-top:20px;  
border-radius:10px;  
}
```

```
h2{  
text-align:center;  
color:#2c3e50;  
}
```

```
input{  
width:100%;  
padding:10px;  
margin:5px 0;  
}
```

```
button{  
background:green;  
color:white;  
padding:10px;  
border:none;  
cursor:pointer;  
}
```

```
table{  
width:100%;  
margin-top:20px;  
border-collapse:collapse;  
}
```

```
table,th,td{  
border:1px solid #ddd;  
}
```

```
th{  
background:#27ae60;  
color:white;  
}
```

```
th,td{
padding:10px;
text-align:center;
}
```

```
a{
color:red;
text-decoration:none;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2>
```

```
APLIKASI PENENTUAN PENERIMAAN BANTUAN SISWA
```

```
</h2>
```

```
<form method="POST">
```

```
<input type="text"
name="nis"
placeholder="NIS"
required>
```

```
<input type="text"
name="nama"
placeholder="Nama Siswa"
required>
```

```
<input type="text"
name="kelas"
placeholder="Kelas"
required>
```

```
<input type="number"
name="penghasilan"
placeholder="Penghasilan Orang Tua"
required>
```

```
<input type="number"
```

```
name="tanggungan"
placeholder="Jumlah Tanggungan"
required>
```

```
<input type="number"
name="nilai"
placeholder="Nilai Rata-rata"
required>
```

```
<button type="submit" name="simpan">
Simpan Data
</button>
```

```
</form>
```

```
<table>
```

```
<tr>
<th>NIS</th>
<th>Nama</th>
<th>Kelas</th>
<th>Penghasilan</th>
<th>Tanggungan</th>
<th>Nilai</th>
<th>Status</th>
<th>Aksi</th>
</tr>
```

```
<?php foreach($data as $d){ ?>
```

```
<tr>
```

```
<td><?= $d['nis']; ?></td>
<td><?= $d['nama']; ?></td>
<td><?= $d['kelas']; ?></td>
<td>Rp <?= number_format($d['penghasilan_ortu']); ?></td>
<td><?= $d['jumlah_tanggungan']; ?></td>
<td><?= $d['nilai_rata']; ?></td>
<td><?= $d['status_bantuan']; ?></td>
```

```
<td>
<a href="?hapus=<?= $d['id']; ?>"
onclick="return confirm('Hapus data?')">
Hapus
</a>
```

```
</td>

</tr>

<?php } ?>

</table>

</div>

</body>
</html>
```

2.HASIL

APLIKASI PENENTUAN PENERIMAAN BANTUAN SISWA

NIS

Nama Siswa

Kelas

Penghasilan Orang Tua

Jumlah Tanggungan

Nilai Rata-rata

Simpan Data

NIS	Nama	Kelas	Penghasilan	Tanggungan	Nilai	Status	Aksi
123456	asrul	1	Rp 300,000	3	80.00	Layak	Hapus