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Matkul : Pemrograman berorientasi Objek

1. Listing Code

```
<?php
```

```
class PersegiPanjang {
    public $panjang;
    public $lebar;

    public function __construct($panjang, $lebar) {
        $this->panjang = $panjang;
        $this->lebar = $lebar;
    }
    public function hitungLuas() {
        return $this->panjang * $this->lebar;
    }
    public function hitungKeliling() {
        return 2 * ($this->panjang + $this->lebar);
    }
}
```

```
class Trapezium {
    public $sisiAtas;
    public $sisiBawah;
    public $tinggi;
    public $sisiMiring1;
    public $sisiMiring2;
    public function __construct($sisiAtas, $sisiBawah, $tinggi, $sisiMiring1,
    $sisiMiring2) {
        $this->sisiAtas = $sisiAtas;
        $this->sisiBawah = $sisiBawah;
        $this->tinggi = $tinggi;
        $this->sisiMiring1 = $sisiMiring1;
        $this->sisiMiring2 = $sisiMiring2;
    }
    public function hitungLuas() {
        return 0.5 * ($this->sisiAtas + $this->sisiBawah) * $this->tinggi;
    }
}
```

```

    }
    public function hitungKeliling() {
        return $this->sisiAtas + $this->sisiBawah + $this->sisiMiring1 + $this-
>sisiMiring2;
    }
}

```

```

class Lingkaran {
    public $jariJari;
    public function __construct($jariJari) {
        $this->jariJari = $jariJari;
    }
    public function hitungLuas() {
        return M_PI * $this->jariJari * $this->jariJari;
    }
    public function hitungKeliling() {
        return 2 * M_PI * $this->jariJari;
    }
}

```

```

echo "= HASIL PERHITUNGAN OOP BANGUN DATAR =<br><br>";

```

```

$pp = new PersegiPanjang(10, 5);
echo "1. PERSEGI PANJANG<br>";
echo " - Panjang : " . $pp->panjang . "<br>";
echo " - Lebar   : " . $pp->lebar . "<br>";
echo " - Luas    : " . $pp->hitungLuas() . "<br>";
echo " - Keliling : " . $pp->hitungKeliling() . "<br>";
echo "-----<br>";

```

```

$trapesium = new Trapesium(6, 10, 4, 5, 5);
echo "2. TRAPESIUM<br>";
echo " - Luas    : " . $trapesium->hitungLuas() . "<br>";
echo " - Keliling : " . $trapesium->hitungKeliling() . "<br>";
echo "-----<br>";

```

```

$lingkaran = new Lingkaran(7);
echo "3. LINGKARAN<br>";
echo " - Jari-jari : " . $lingkaran->jariJari . "<br>";
echo " - Luas    : " . number_format($lingkaran->hitungLuas(), 2) . "<br>";

```

```
echo " - Keliling : " . number_format($lingkaran->hitungKeliling(), 2) . "<br>";  
echo "=====<br>";  
?>
```

2. Hasil

```
= HASIL PERHITUNGAN OOP BANGUN DATAR =  
  
1. PERSEGI PANJANG  
- Panjang : 10  
- Lebar : 5  
- Luas : 50  
- Keliling : 30  
-----  
2. TRAPESIUM  
- Luas : 32  
- Keliling : 26  
-----  
3. LINGKARAN  
- Jari-jari: 7  
- Luas : 153.94  
- Keliling : 43.98  
=====
```