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PRODI : PEMROGRAMAN BERORIENTASI OBJEK

1. Listing Kode

```
<?php
class PersegiPanjang {
    public $panjang;
    public $lebar;
    public function __construct($p, $l) {
        $this->panjang = $p;
        $this->lebar = $l;
    }

    public function hitungLuas() {
        return $this->panjang * $this->lebar;
    }

    public function hitungKeliling() {
        return 2 * ($this->panjang + $this->lebar);
    }
}

class Lingkaran {
    public $jariJari;

    public function __construct($r) {
        $this->jariJari = $r;
    }

    public function hitungLuas() {
        return pi() * pow($this->jariJari, 2);
    }
}
```

```

    }

    public function hitungKeliling() {
        return 2 * pi() * $this->jariJari;
    }
}

class Trapesium {
    public $alasAtas;
    public $alasBawah;
    public $tinggi;
    public $sisiMiring;
    public function __construct($a, $b, $t, $s) {
        $this->alasAtas = $a;
        $this->alasBawah = $b;
        $this->tinggi = $t;
        $this->sisiMiring = $s;
    }

    public function hitungLuas() {
        return 0.5 * ($this->alasAtas + $this->alasBawah) * $this->tinggi;
    }

    public function hitungKeliling() {
        return $this->alasAtas + $this->alasBawah + (2 * $this->sisiMiring);
    }
}

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

echo " * LINGKARAN ";

```

```
$bundar = new Lingkaran(7);  
echo "Luas: " . round($bundar->hitungLuas(), 2) . "<br>";  
echo "Keliling: " . round($bundar->hitungKeliling(), 2) . "<br><br>";  
  
echo " * TRAPESIUM ";  
$strap = new Trapesium(6, 10, 4, 5);  
echo "Luas: " . $strap->hitungLuas() . "<br>";  
echo "Keliling: " . $strap->hitungKeliling() . "<br>";  
?>
```

2. Hasil

*** PERSEGI PANJANG Luas: 50**

Keliling: 30

*** LINGKARAN Luas: 153.94**

Keliling: 43.98

*** TRAPESIUM Luas: 32**

Keliling: 26