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<?php

class Persegi {
    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);
    }
}

$persegi = new Persegi(10, 5);

echo "=== PERSEGI === <br>";
echo "Luas Persegi : " . $persegi->hitungLuas() . "<br>";
echo "Keliling Persegi : " . $persegi->hitungKeliling() . "<br><br>";

class Lingkaran {
    public $jariJari;

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

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

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

$lingkaran = new Lingkaran(7);

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echo "=== LINGKARAN === <br>";
echo "Luas Lingkaran : " . $lingkaran->hitungLuas() . "<br>";
echo "Keliling Lingkaran : " . $lingkaran->hitungKeliling() . "<br><br>";

class Trapezium {
    public $sisiAtas;
    public $sisiBawah;
    public $tinggi;
    public $sisiMiring;

    public function __construct($sisiAtas, $sisiBawah, $tinggi, $sisiMiring) {
        $this->sisiAtas = $sisiAtas;
        $this->sisiBawah = $sisiBawah;
        $this->tinggi = $tinggi;
        $this->sisiMiring = $sisiMiring;
    }

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

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

$trapesium = new Trapezium(8, 12, 6, 5);

echo "=== TRAPESIUM === <br>";
echo "Luas Trapezium : " . $trapesium->hitungLuas() . "<br>";
echo "Keliling Trapezium : " . $trapesium->hitungKeliling();

?>

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