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KODE OOP

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index.php
C: > xampp 2 > htdocs > tugas2 > index.php
1  <?php
2  // ===== CLASS PERSEGI =====
3  class Persegi {
4      public $panjang;
5      public $lebar;
6
7      public function __construct($panjang, $lebar) {
8          $this->panjang = $panjang;
9          $this->lebar = $lebar;
10     }
11
12     public function hitungLuas() {
13         return $this->panjang * $this->lebar;
14     }
15
16     public function hitungKeliling() {
17         return 2 * ($this->panjang + $this->lebar);
18     }
19 }
20
21 // ===== CLASS TRAPESIUM =====
22 class Trapezium {
23     public $sisiAtas;
24     public $sisiBawah;
25     public $tinggi;
26     public $sisiMiring1;
27     public $sisiMiring2;
28
29     public function __construct($sisiAtas, $sisiBawah, $tinggi, $sisiMiring1, $sisiMiring2) {
30         $this->sisiAtas = $sisiAtas;
31         $this->sisiBawah = $sisiBawah;
32         $this->tinggi = $tinggi;
33         $this->sisiMiring1 = $sisiMiring1;
34         $this->sisiMiring2 = $sisiMiring2;
35     }
36
37     public function hitungLuas() {
38         return 0.5 * ($this->sisiAtas + $this->sisiBawah) * $this->tinggi;
39     }
40
41     public function hitungKeliling() {
42         return $this->sisiAtas + $this->sisiBawah + $this->sisiMiring1 + $this->sisiMiring2;
43     }
44 }
45
46 // ===== CLASS LINGKARAN =====
47 class Lingkaran {
48     public $jariJari;
49
50     public function __construct($jariJari) {
51         $this->jariJari = $jariJari;
52     }
53
54     public function hitungLuas() {
55         return pi() * $this->jariJari * $this->jariJari;
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56     }
57
58     public function hitungKeliling() {
59         return 2 * pi() * $this->jariJari;
60     }
61 }
62
63 // ===== OBJEK PERSEGI =====
64 $persegi = new Persegi(10, 5);
65
66 echo "<h3>Persegi</h3>";
67 echo "Panjang : " . $persegi->panjang . "<br>";
68 echo "Lebar : " . $persegi->lebar . "<br>";
69 echo "Luas : " . $persegi->hitungLuas() . "<br>";
70 echo "Keliling : " . $persegi->hitungKeliling() . "<br><br>";
71
72 // ===== OBJEK TRAPESIUM =====
73 $trapesium = new Trapesium(8, 12, 6, 5, 5);
74
75 echo "<h3>Trapesium</h3>";
76 echo "Sisi Atas : " . $trapesium->sisiatas . "<br>";
77 echo "Sisi Bawah : " . $trapesium->sisibawah . "<br>";
78 echo "Tinggi : " . $trapesium->tinggi . "<br>";
79 echo "Luas : " . $trapesium->hitungLuas() . "<br>";
80 echo "Keliling : " . $trapesium->hitungKeliling() . "<br><br>";

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81
82 // ===== OBJEK LINGKARAN =====
83 $lingkaran = new Lingkaran(7);
84
85 echo "<h3>Lingkaran</h3>";
86 echo "Jari-jari : " . $lingkaran->jariJari . "<br>";
87 echo "Luas : " . round($lingkaran->hitungLuas(), 2) . "<br>";
88 echo "Keliling : " . round($lingkaran->hitungKeliling(), 2);
89 ?>

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HASIL AKHIR

Persegi

Panjang : 10

Lebar : 5

Luas : 50

Keliling : 30

Trapesium

Sisi Atas : 8

Sisi Bawah : 12

Tinggi : 6

Luas : 60

Keliling : 30

Lingkaran

Jari-jari : 7

Luas : 153.94

Keliling : 43.98