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Mata Kuliah : Pemrograman Berorientasi Objek (PBO)

1. Buat class Matematika2 yang merupakan inherit dari class Matematika (soal latihan

pertemuan 2), tambahkan method modulus (int a, int b) yang menghitung modulus dari

a dan b. Buat class MatematikaInheritance yang memanggil semua method dari class Matematika dan Matematika2

* Class Matematika

|  |  |
| --- | --- |
| 1. | public class Matematika { |
| 2. | public void pertambahan(int a, int b) { |
| 3. | int c = a + b; |
| 4. | System.out.println(a + " + " + b + " = " + c); |
| 5. | } |
| 6. |  |
| 7. | public void pengurangan(int a, int b) { |
| 8. | int c = a - b; |
| 9. | System.out.println(a + " - " + b + " = " + c); |
| 10. | } |
| 11. |  |
| 12. | public void perkalian(int a, int b) { |
| 13. | int c = a \* b; |
| 14. | System.out.println(a + " \* " + b + " = " + c); |
| 15. | } |
| 16. |  |
| 17. | public void pembagian(int a, int b) { |
| 18. | int c = a / b; |
| 19. | System.out.println(a + " / " + b + " = " + c); |
| 20. | } |
| 21. |  |
| 22. | } |

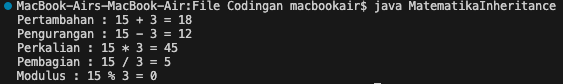
* Class Matematika2

|  |  |
| --- | --- |
| 1. | class Matematika2 extends Matematika { |
| 2. | public void modulus(int a, int b) { |
| 3. | int c = a % b; |
| 4. | System.out.println("Modulus : " + a + " % " + b + " = " + c); |
| 5. | } |
| 6. | } |

* Class MatematikaInheritance

|  |  |
| --- | --- |
| 1. | public class MatematikaInheritance { |
| 2. | static public void main(String[] args) { |
| 3. | Matematika2 mtk1 = new Matematika2(); |
| 4. |  |
| 5. | mtk1.pertambahan(15, 3); |
| 6. | mtk1.pengurangan(15, 3); |
| 7. | mtk1.perkalian(15, 3); |
| 8. | mtk1.pembagian(15, 3); |
| 9. | mtk1.modulus(15, 3); |
| 10. | } |
| 11. | } |

Output MatematikaInheritance:



1. Buat class KonversiSuhu() yang mempunyai method celciusToFahrenheit() dan celciusToReamur(). Buat class KonversiSuhu2() yang inherit dari class KonversiSuhu() dan mempunyai method fahrenheitToReamur(). Buat class DemoKonversiSuhu() yang memberikan nilai dan memanggil semua method dari class KonversiSuhu() dan class KonversiSuhu1().

* Class KonversiSuhu

|  |  |
| --- | --- |
| 1. | class KonversiSuhu { |
| 2. | double celciusToFahrenheit(double celciusValue) { |
| 3. | double fahrenheitValue = (9 \* celciusValue / 5) + 32; |
| 4. | System.out.println("Hasil konversi dari " + celciusValue + "C adalah " + fahrenheitValue + "F"); |
| 5. |  |
| 6. | return fahrenheitValue; |
| 7. | } |
| 8. |  |
| 9. | double celciusToReamur(double celciusValue) { |
| 10. | double reamurValue = 4 \* celciusValue / 5; |
| 11. | System.out.println("Hasil konversi dari " + celciusValue + "C adalah " + reamurValue + "R"); |
| 12. |  |
| 13. | return reamurValue; |
| 14. | } |
| 15. | } |

* Class KonversiSuhu2

|  |  |
| --- | --- |
| 1. | class KonversiSuhu2 extends KonversiSuhu { |
| 2. | double fahrenheitToReamur(double fahrenheitValue) { |
| 3. | double reamurValue = (fahrenheitValue - 32) \* 4 / 9; |
| 4. | System.out.println("Hasil konversi dari " + fahrenheitValue + "F adalah " + reamurValue + "R"); |
| 5. |  |
| 6. | return reamurValue; |
| 7. | } |
| 8. | } |

* Class DemoKonversiSuhu

|  |  |
| --- | --- |
| 1. | class DemoKonversiSuhu { |
| 2. | static public void main(String[] args) { |
| 3. | KonversiSuhu2 suhu1 = new KonversiSuhu2(); |
| 4. |  |
| 5. | suhu1.celciusToFahrenheit(100); |
| 6. | suhu1.celciusToReamur(100); |
| 7. | suhu1.fahrenheitToReamur(100); |
| 8. | } |
| 9. | } |

Output DemoKonversiSuhu :

