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PEMROGRAMAN BERORIENTASI OBYEK

PRAKTIKUM 3

- 1. Buat Class bernama matematika, yang berisi method:
 - pertambahan
 - pengurangan
 - perkalian
 - pembagian

Buat Class bernama matematikaDemo, yang mengeksekusi method dan menampilkan:

• Pertambahan: 20 + 20 = 40

• Pengurangan: 10-5 = 5

• Perkalian: 10x20 = 200

• Pembagian: 20/2 = 10

PENYELESAIAN

Matematika Java Class

```
return (x*y);
      }
             // buat method Pembagian
      public int Pembagian(int x, int y){
             return (x/y);
      }
}
MatematikaDemo Java Main Class
public class MatematikaDemo {
      public static void main(String[] args) {
                    // membuat object
             Matematika operasi1 = new Matematika();
                    // cetak hasil
             System.out.println("Pertambahan
                                                     20+20
                                                                   \t=
+operasi1.Pertambahan(20,30));
             System.out.println("Pengurangan
                                                      10-5
                                                                  t=
+operasi1.Pengurangan(20,30));
             System.out.println("Perkalian
                                                   10x20
                                                                 \t=
+operasi1.Perkalian(20,30));
             System.out.println("Pembagian
                                                    10:2
                                                                 t = 
+operasi1.Pembagian(30,6));
      }
}
Output
Output - PBO_Latihan (run)
       Pertambahan 20+20 = 50
      Pengurangan 10-5 = -10
      Perkalian 10x20 = 600
```

Pembagian 10:2 = 5

Output

BUILD SUCCESSFUL (total time: 0 seconds)

2. Buatlah program konversi suhu, dari Celcius dengan ketentuan seperti table berikut :

Skala yang diinginkan	Formula
Kelvin	K = °C + 273,15
Fahrenheit	°F = °C × 1,8 + 32
Rankine	°Ra = °C × 1,8 + 491,67
Delisle	°De = (100 - °C) × 1,5
Newton	°N = °C × 33/100
Réaumur	°Ré = °C × 0,8
Rømer	°Rø = °C × 21/40 + 7,5

PENYELESAIAN

KonversiSuhu Java Class

```
public class KonversiSuhu {
             // buat method Kelvin
      public double Kelvin(double celcius){
             return (celcius + 273.15);
      }
             // buat method Fahrenheit
      public double Fahrenheit(double celcius){
             return (celcius * 1.8 + 32);
      }
             // buat method Rankine
      public double Rankine(double celcius){
             return (celcius * 1.8 + 491.67);
      }
             // buat method Delisle
      public double Delisle(double celcius){
             return (100 - celcius) * 1.5;
      }
             // buat method Newton
      public double Newton(double celcius){
             return (celcius * 33/100);
      }
             // buat method Reaumur
      public double Reaumur(double celcius){
             return (celcius * 0.8);
      }
```

```
// buat method Romer
      public double Romer(double celcius){
             return (celcius * 21 / 40 + 7.5);
      }
}
KonversiSuhuDemo Java Main Class
public class KonversiSuhuDemo {
      public static void main(String[] args) {
                    // buat object value
             KonversiSuhu value = new KonversiSuhu();
                    // cetak hasil konversi suhu dari object value
             System.out.println("Celcius \t= 20 ");
             System.out.println("========");
             System.out.println("Kelvin \t\t= " +value.Kelvin(20));
             System.out.println("Fahrenheit \t= " +value.Fahrenheit(20));
             System.out.println("Rankine \t= " +value.Rankine(20));
             System.out.println("Delisle \t= " +value.Delisle(20));
             System.out.println("Newton \t\t= " +value.Newton(20));
             System.out.println("Reaumur \t= " +value.Reaumur(20));
             System.out.println("Romer \t\t= " +value.Romer(20));
      }
}
```

Output

```
Output - PBO_Latihan (run)
    run:
     Celcius
-----
Kelvin
                  = 293.15
     Fahrenheit = 68.0

Pankine = 527.670000000001
                 = 6.6
     Newton
     Reaumur
                = 16.0
                  = 18.0
     BUILD SUCCESSFUL (total time: 0 seconds)
Output
```