PROGRAM BERORIENTASI OBYEK LANJUT (POB/OOP) TUGAS 1

Diajukan untuk memenuhi salah satu tugas mata kuliah Program Berorientasi Obyek Lanjutan yang diampu oleh Freddy Wicaksono, M. Kom

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Kelas D



PROGRAM STUDI TEKNIK INFORMATIKA FAKULTAS TEKNIK UNIVERSITAS MUHAMMADIYAH CIREBON 2022

Buatlah 3 buah class (Fahrenheit, Reamur, dan Kelvin) yang mengimplementasikan OOP dimana setiap class memiliki kemampuan untuk melakukan konversi ke Temperatur yang lain.

1. Sintask:

a. Fahrenheit

```
class Fahrenheit:
    def __init__(self, temperature):
        self.temperature = temperature
   def to_celsius(self):
        return (self.temperature - 32) * 5 / 9
    def to_reamur(self):
        return (self.temperature - 32) * 4 / 9
   def to_kelvin(self):
        return (self.temperature + 459.67) * 5 / 9
# membuat objek Fahrenheit dengan nilai 7 derajat Fahrenheit
f = Fahrenheit(7)
print("| CONVERTER FAHRENHEIT |")
# konversi suhu Fahrenheit ke Celsius
c = f.to_celsius()
print("\nCelsius = ",c)
# konversi suhu Fahrenheit ke Reamur
r = f.to reamur()
print("Reamur = ",r)
# konversi suhu Fahrenheit ke Kelvin
k = f.to_kelvin()
print("Kelvin = ",k)
print("\n| RIFKI PRAMAYANDI MAHESA |")
print("|
                                   |")
               210511156
print("|
                                   |")
               KELAS D
```

b. Reamur

```
class Reamur:
    def __init__(self, temperature):
        self.temperature = temperature
    def to_celsius(self):
        return self.temperature * 5 / 4
    def to_fahrenheit(self):
        return self.temperature * 9 / 4 + 32
    def to_kelvin(self):
        return self.temperature * 5 / 4 + 273.15
# membuat objek Reamur dengan nilai 23 derajat Reamur
R = Reamur(23)
print(" | CONVERTER REAMUR
                             |")
# konversi suhu Reamur ke Celsius
c = R.to_celsius()
print("\nCelsius = ",c)
# konversi suhu Reamur ke Fahrenheit
f = R.to fahrenheit()
print("Fahrenheit = ",f)
# konversi suhu Reamur ke Kelvin
k = R.to_kelvin()
print("Kelvin = ",k)
print("\n|RIFKI PRAMAYANDI MAHESA|")
print("|
            210511156
                               |")
                               |")
print("
             KELAS D
```

c. Kelvin

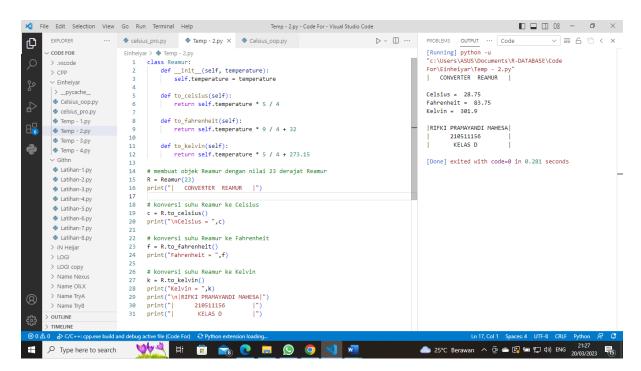
```
class Kelvin:
    def __init__(self, temperature):
        self.temperature = temperature
    def to_celsius(self):
        return self.temperature - 273.15
    def to_fahrenheit(self):
        return self.temperature * 9 / 5 - 459.67
    def to_reamur(self):
        return (self.temperature - 273.15) * 4 / 5
# membuat objek Kelvin dengan nilai 14 derajat Kelvin
K = Kelvin(14)
print("| CONVERTER KELVIN |")
# konversi suhu Kelvin ke Celsius
c = K.to_celsius()
print("\nCelsius = ",c)
# konversi suhu Kelvin ke Fahrenheit
f = K.to fahrenheit()
print("Fahrenheit = ",f)
# konversi suhu Kelvin ke Reamur
r = K.to_reamur()
print("Reamur = ",r)
print("\n|RIFKI PRAMAYANDI MAHESA|")
print("|
            210511156
                               |")
                               |")
print("
             KELAS D
```

2. Hasil Program:

a. Fahrenheit

```
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                                     class Fahrenheit:
    def __init__(self, temperature):
        self.temperature = temperature
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| CONVERTER FAHRENHEIT |
        > CPP
         ∨ Einheiyaı
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                                         def to celsius(self):
         Celsius_oop.py
                                        return (self.temperature - 32) * 5 / 9
         Temp - 1.pv
                                        def to reamur(self):
         Temp - 2.py
                                             return (self.temperature - 32) * 4 / 9
                                                                                                                                   210511156
         Temp - 3.py
                                                                                                                                     KELAS D
         Temp - 4.py
                                12
                                              return (self.temperature + 459.67) * 5 / 9
         / Githn
                                                                                                                          [Done] exited with code=0 in 0.479 seconds
                                13
         Latihan-1.py
                                # membuat objek Fahrenheit dengan nilai 7 derajat Fahrenheit
f = Fahrenheit(7)
f = print("| CONVERTER FAHRENHEIT |")
         Latihan-3.pv
         Latihan-4.py
                                18 # konversi suhu Fahrenheit ke Celsius
19 c = f.to_celsius()
         Latihan-5.py
                                    c = f.to_celsius()
print("\nCelsius = ",c)
         Latihan-6.pv
                                21
         Latihan-8.py
                                    # konversi suhu Eahrenheit ke Reamur
                                    r = f.to_reamur()
print("Reamur = ",r)
        > iN Heijar
        > LOGI
        > LOGI copy
                                    # Konversi Suhu Fahrenheit ke Kelvin k = f.to_kelvin() print("Kelvin = ",k) print("Nelvin = RIFKI PRAMAYANDI MAHESA |") print("| 218511156 |") print("| KELAS D |")
                                     # konversi suhu Fahrenheit ke Kelvin
        > Name Oli.X
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```

b. Reamur



c. Kelvin

