

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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### Tugas Minggu 1:

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

Jawaban berupa 3 buah screenshot script beserta hasilnya dikirim ke email ([freddy.wicaksono@umc.ac.id](mailto:freddy.wicaksono@umc.ac.id)) dengan subject: **Tugas-1 PBO2 2023**

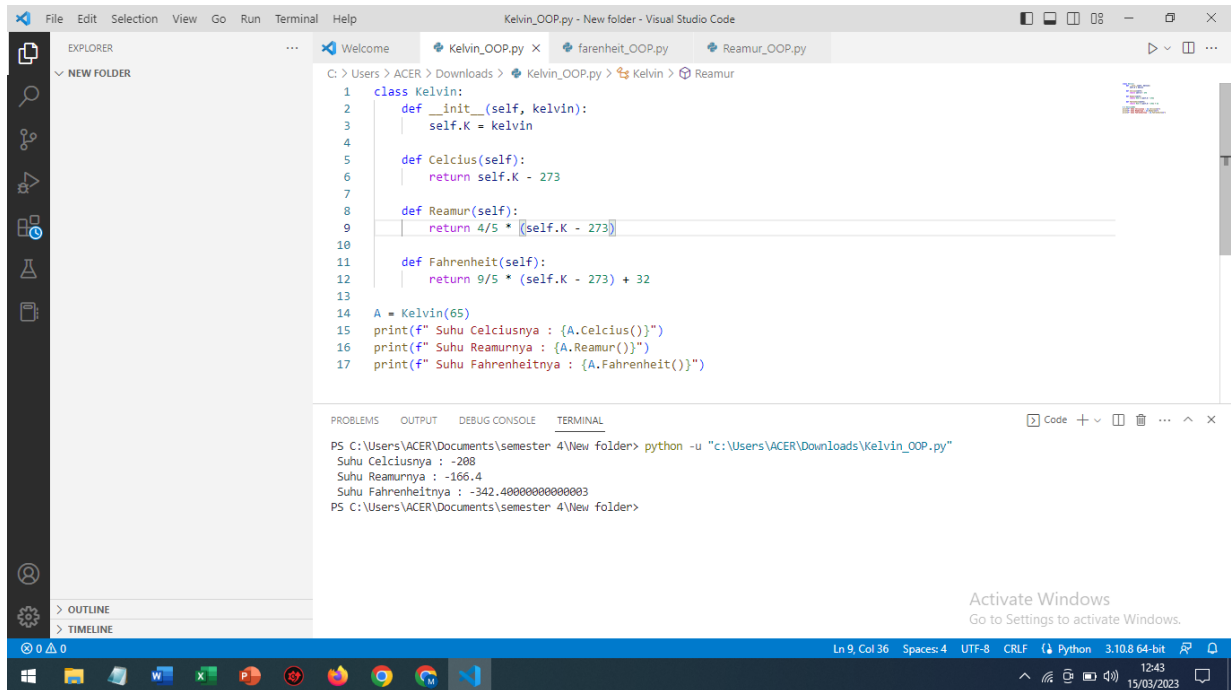
```
class Kelvin:
    def __init__(self, kelvin):
        self.K = kelvin

    def Celcius(self):
        return self.K - 273

    def Reamur(self):
        return 4/5 * (self.K - 273)

    def Fahrenheit(self):
        return 9/5 * (self.K - 273) + 32

A = Kelvin(69)
print(f" Suhu Celciusnya : {A.Celcius()}")
print(f" Suhu Reamurnya : {A.Reamur()}")
print(f" Suhu Fahrenheitnya : {A.Fahrenheit()}")
```



```

class Fahrenheit:
    def __init__(self, fahrenheit):
        self.f = fahrenheit

    def Celcius(self):
        return 5/9 * (self.f - 32)

    def Reamur(self):
        return 4/9 * (self.f - 32)

    def Kelvin(self):
        return 5/9 * (self.f - 32) + 273

A = Fahrenheit(69)
print(f" Suhu Celciusnya : {A.Celcius()}")
print(f" Suhu Reamurnya : {A.Reamur()}")
print(f" Suhu Kelvinnya : {A.Kelvin()}")

```

The screenshot shows a Visual Studio Code window with a file named `fahrenheit_OOP.py` open. The code defines a `Fahrenheit` class with methods to convert Fahrenheit to Celsius, Reamur, and Kelvin. An instance `A` is created with a value of 90. The terminal output shows the results of these conversions for the value 90.

```

class Fahrenheit:
    def __init__(self, fahrenheit):
        self.f = fahrenheit

    def Celcius(self):
        return 5/9 * (self.f - 32)

    def Reamur(self):
        return 4/9 * (self.f - 32)

    def Kelvin(self):
        return 5/9 * (self.f - 32) + 273

A = Fahrenheit(90)
print(f" Suhu Celciusnya : {A.Celcius()}")
print(f" Suhu Reamurnya : {A.Reamur()}")
print(f" Suhu Kelvinnya : {A.Kelvin()}")

```

Terminal Output:

```

PS C:\Users\ACER\Documents\semester 4\New folder> python -u "c:\Users\ACER\Downloads\fahrenheit_OOP.py"
Suhu Celciusnya : 32.22222222222222
Suhu Reamurnya : 25.777777777777775
Suhu Kelvinnya : 305.22222222222223
PS C:\Users\ACER\Documents\semester 4\New folder>

```

```

class Reamur:
    def __init__(self, reamur):
        self.R = reamur

    def Celcius(self):
        return 5/4 * self.R

    def Kelvin(self):
        return 9/4 * (self.R + 32)

    def Fahrenheit(self):
        return 5/4 * (self.R + 273)

A = Reamur(69)
print(f" Suhu Celciusnya : {A.Celcius()}")
print(f" Suhu Kelvinnya : {A.Kelvin()}")
print(f" Suhu Fahrenheitnya : {A.Fahrenheit()}")

```

The screenshot shows the Visual Studio Code interface. The editor window displays the Python code from the previous block. The file explorer on the left shows a 'NEW FOLDER' and the file 'Reamur\_OOP.py'. The terminal at the bottom shows the command to run the script and its output.

```

C:\Users\ACER> python -u "c:\Users\ACER\Downloads\Reamur_OOP.py"
Suhu Celciusnya : 93.75
Suhu Kelvinnya : 248.75
Suhu Fahrenheitnya : 435.0
PS C:\Users\ACER\Documents\semester 4\New folder>

```

At the bottom of the terminal, there is a message: "Activate Windows Go to Settings to activate Windows."