

Nama : Agung Sihab Malawi

Nim : 210511047

Kelas : R1

PBO2 Tugas 1

Script

```
#Nama :Agung Sihab Malawi
#Kelas:R1
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print("Tugas Minggu 1")
print("="*50)
print(" ")

class SuhuCelcius:
    def __init__(self, celcius):
        self.celcius = celcius
    def fahrenheit(self):
        return (self.celcius * 9/5) + 32
    def reamur(self):
        return (self.celcius * 4/5)
    def kelvin(self):
        return (self.celcius + 273.15)

class SuhuFahrenheit:
    def __init__(self, fahrenheit):
        self.fahrenheit = fahrenheit
    def celcius(self):
        return 5/9 * (self.fahrenheit - 32)
    def kelvin(self):
        return 5/9 * (self.fahrenheit - 32) +273
    def reamur(self):
        return 4/9 * (self.fahrenheit - 32)

class SuhuReamur:
    def __init__(self, reamur):
        self.reamur = reamur
    def celcius(self):
        return (5/4 * self.reamur)
    def fahrenheit(self):
        return (9/4 * self.reamur) + 32
    def kelvin(self):
        return (5/4 * self.reamur) + 273
```

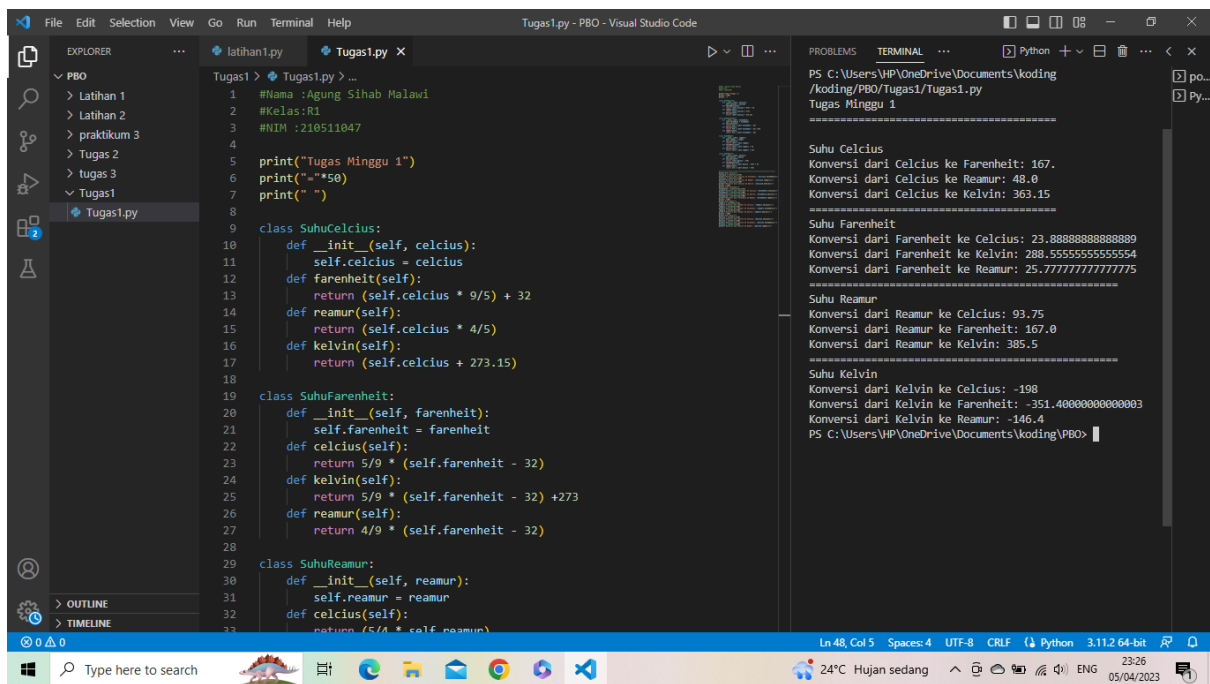
```

class SuhuKelvin:
    def __init__(self, kelvin):
        self.kelvin = kelvin
    def celcius(self):
        return (self.kelvin - 273)
    def fahrenheit(self):
        return 9/5 * (self.kelvin - 273) + 32
    def reamur(self):
        return 4/5 * (self.kelvin - 273)

#=====
print("Suhu Celcius")
celcius1 = SuhuCelcius(75)
print(f"Konversi dari Celcius ke Farenheit: {celcius1.fahrenheit()}")
celcius2 = SuhuCelcius(60)
print(f"Konversi dari Celcius ke Reamur: {celcius2.reamur()}")
celcius3 = SuhuCelcius(90)
print(f"Konversi dari Celcius ke Kelvin: {celcius3.kelvin()}")
print("="*50)
print("Suhu Farenheit")
fahrenheit1 = SuhuFarenheit(75)
print(f"Konversi dari Farenheit ke Celcius: {fahrenheit1.celcius()}")
fahrenheit2 = SuhuFarenheit(60)
print(f"Konversi dari Farenheit ke Kelvin: {fahrenheit2.kelvin()}")
fahrenheit3 = SuhuFarenheit(90)
print(f"Konversi dari Farenheit ke Reamur: {fahrenheit3.reamur()}")
print("="*50)
print("Suhu Reamur")
reamur1 = SuhuReamur(75)
print(f"Konversi dari Reamur ke Celcius: {reamur1.celcius()}")
reamur2 = SuhuReamur(60)
print(f"Konversi dari Reamur ke Farenheit: {reamur2.fahrenheit()}")
reamur3 = SuhuReamur(90)
print(f"Konversi dari Reamur ke Kelvin: {reamur3.kelvin()}")
print("="*50)
print("Suhu Kelvin")
kelvin1 = SuhuKelvin(75)
print(f"Konversi dari Kelvin ke Celcius: {kelvin1.celcius()}")
kelvin2 = SuhuKelvin(60)
print(f"Konversi dari Kelvin ke Farenheit: {kelvin2.fahrenheit()}")
kelvin3 = SuhuKelvin(90)
print(f"Konversi dari Kelvin ke Reamur: {kelvin3.reamur()}")

```

Hasil Running Program



The screenshot displays the Visual Studio Code interface with a Python file named `Tugas1.py` open. The file contains a program that defines three classes for temperature conversions: `SuhuCelcius`, `SuhuFahrenheit`, and `SuhuReamur`. Each class has an `__init__` method to set the initial temperature and methods to convert between the different scales. The program also includes print statements to display the results of these conversions.

```
1 #Nama :Agung Sihab Malawi
2 #Kelas:R1
3 #NIM :210511047
4
5 print("Tugas Minggu 1")
6 print("="*50)
7 print(" ")
8
9 class SuhuCelcius:
10     def __init__(self, celcius):
11         self.celcius = celcius
12     def fahrenheit(self):
13         return (self.celcius * 9/5) + 32
14     def reamur(self):
15         return (self.celcius * 4/5)
16     def kelvin(self):
17         return (self.celcius + 273.15)
18
19 class SuhuFahrenheit:
20     def __init__(self, fahrenheit):
21         self.fahrenheit = fahrenheit
22     def celcius(self):
23         return 5/9 * (self.fahrenheit - 32)
24     def kelvin(self):
25         return 5/9 * (self.fahrenheit - 32) + 273
26     def reamur(self):
27         return 4/9 * (self.fahrenheit - 32)
28
29 class SuhuReamur:
30     def __init__(self, reamur):
31         self.reamur = reamur
32     def celcius(self):
33         return (5/4 * self.reamur)
```

The output of the program is displayed in the terminal window, showing the results of the conversions for each class:

```
PS C:\Users\VIP\OneDrive\Documents\koding> python /koding/PBO/Tugas1/Tugas1.py
Tugas Minggu 1
=====
Suhu Celcius
Konversi dari Celcius ke Fahrenheit: 167.
Konversi dari Celcius ke Reamur: 48.0
Konversi dari Celcius ke Kelvin: 363.15
=====
Suhu Fahrenheit
Konversi dari Fahrenheit ke Celcius: 23.88888888888889
Konversi dari Fahrenheit ke Kelvin: 288.55555555555554
Konversi dari Fahrenheit ke Reamur: 25.777777777777775
=====
Suhu Reamur
Konversi dari Reamur ke Celcius: 93.75
Konversi dari Reamur ke Fahrenheit: 167.0
Konversi dari Reamur ke Kelvin: 385.5
=====
Suhu Kelvin
Konversi dari Kelvin ke Celcius: -198
Konversi dari Kelvin ke Fahrenheit: -351.40000000000003
Konversi dari Kelvin ke Reamur: -146.4
PS C:\Users\VIP\OneDrive\Documents\koding\PBO>
```