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NIM : 210511076

Kelas : R2

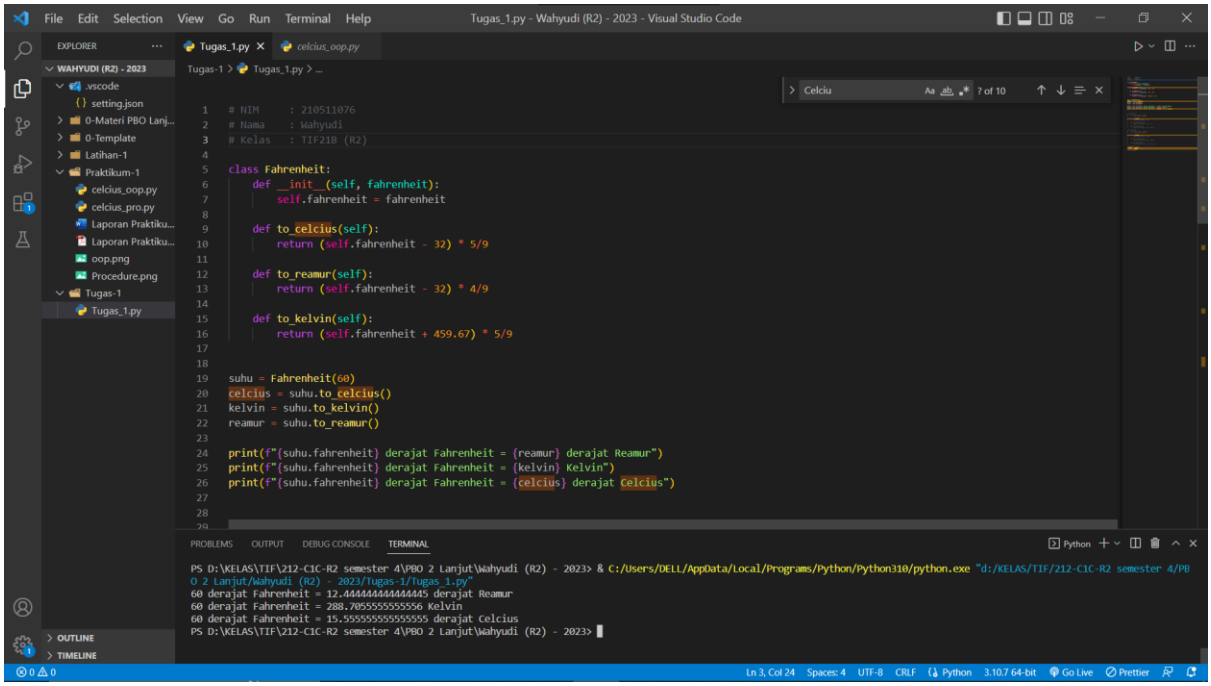
Tugas Minggu 1

Buatlah 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) dengan subject: Tugas-1 PBO2 2022

Class Fahrenheit:

```
class Fahrenheit:

    def __init__(self, fahrenheit):
        self.fahrenheit = fahrenheit

    def to_celcius(self):
        return (self.fahrenheit - 32) * 5/9

    def to_reamur(self):
        return (self.fahrenheit - 32) * 4/9

    def to_kelvin(self):
        return (self.fahrenheit + 459.67) * 5/9

suhu = Fahrenheit(60)
celcius = suhu.to_celcius()
reamur = suhu.to_reamur()
kelvin = suhu.to_kelvin()

print(f"{suhu.fahrenheit} derajat Fahrenheit = {kelvin} derajat Kelvin")
print(f"{suhu.fahrenheit} derajat Fahrenheit = {reamur} Reamur")
print(f"{suhu.fahrenheit }derajat Fahrenheit = {celcius} derajat Celcius")
```

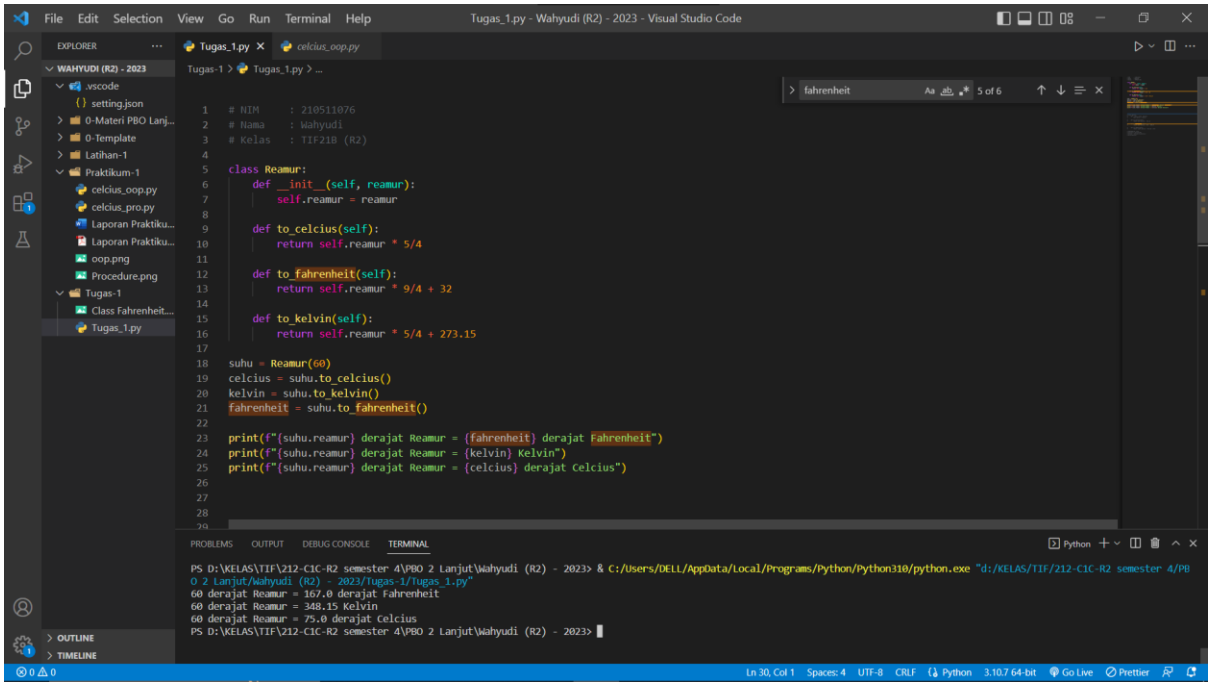
Output Fahrenheit:



Class Reamur:

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

    def to_celcius(self):
        return self.reamur * 5/4

    def to_fahrenheit(self):
        return self.reamur * 9/4 + 32

    def to_kelvin(self):
        return self.reamur * 5/4 + 273.15

suhu = Reamur(60)
celcius = suhu.to_celcius()
kelvin = suhu.to_kelvin()
fahrenheit = suhu.to_fahrenheit()

print(f"{suhu.kelvin} derajat kelvin = {fahrenheit} derajat Fahrenheit")
print(f"{suhu.kelvin} derajat kelvin = {kelvin} Kelvin")
print(f"{suhu.kelvin} derajat kelvin = {celcius} derajat Celcius")
```

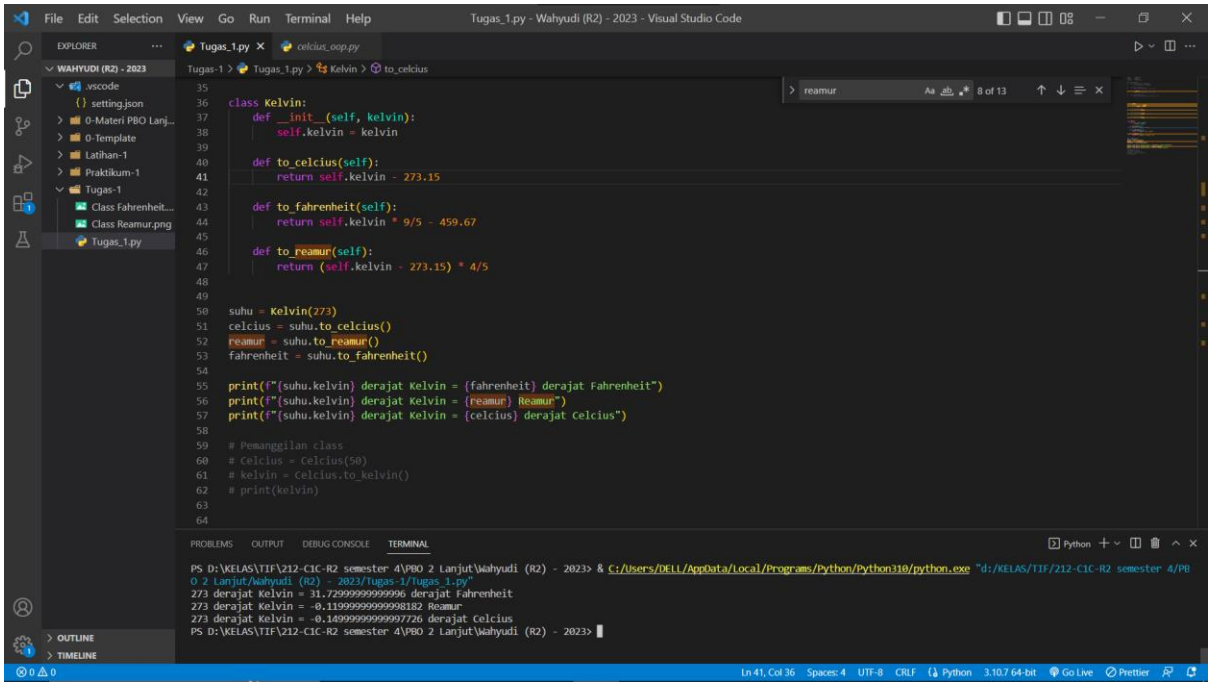
Output Reamur:



Class Kelvin:

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

    def to_celcius(self):
        return self.kelvin - 273.15

    def to_fahrenheit(self):
        return self.kelvin * 9/5 - 459.67

    def to_reamur(self):
        return (self.kelvin - 273.15) * 4/5


suhu = Kelvin(273)
celcius = suhu.to_celcius()
reamur = suhu.to_reamur()
fahrenheit = suhu.to_fahrenheit()

print(f"{suhu.kelvin} derajat Kelvin = {fahrenheit} derajat Fahrenheit")
print(f"{suhu.kelvin} derajat Kelvin = {reamur} Reamur")
print(f"{suhu.kelvin} derajat Kelvin = {celcius} derajat Celcius")
```

Output Kelvin:


File Edit Selection View Go Run Terminal Help
Tugas_1.py - Wahyudi (R2) - 2023 - Visual Studio Code
EXPLORER
WAHYUDI (R2) - 2023
.vscode
setting.json
0-Materi PBO Lanj...
0-Template
Latihan-1
Praktikum-1
Tugas-1
Class Fahrenheit....
Class Reamur.png
Tugas_1.py
OUTLINE
TIMELINE
Tugas_1.py
celcius_oop.py
Tugas-1 > Tugas_1.py > Kelvin > to_celcius
reamur
8 of 13
class Kelvin:
def __init__(self, kelvin):
self.kelvin = kelvin
def to_celcius(self):
return self.kelvin - 273.15
def to_fahrenheit(self):
return self.kelvin * 9/5 - 459.67
def to_reamur(self):
return (self.kelvin - 273.15) * 4/5
suhu = Kelvin(273)
celcius = suhu.to_celcius()
reamur = suhu.to_reamur()
fahrenheit = suhu.to_fahrenheit()
print(f"{suhu.kelvin} derajat Kelvin = {fahrenheit} derajat Fahrenheit")
print(f"{suhu.kelvin} derajat Kelvin = {reamur} Reamur")
print(f"{suhu.kelvin} derajat Kelvin = {celcius} derajat Celcius")
# Pemanggilan class
# Celcius = Celcius(50)
# kelvin = Celcius.to_kelvin()
# print(kelvin)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023> & C:/Users/DELL/AppData/Local/Programs/Python/Python310/python.exe "d:/KELAS/TIF/212-C1C-R2 semester 4/PBO 2 Lanjut/Wahyudi (R2) - 2023/Tugas-1/Tugas_1.py"
273 derajat Kelvin = 31.729999999999996 derajat Fahrenheit
273 derajat Kelvin = -0.11999999999998182 Reamur
273 derajat Kelvin = -0.14999999999997726 derajat Celcius
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023>
Ln 41, Col 36 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit Go Live Prettier