

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

Nama : Wahyudi

NIM : 210511076

Kelas : TIF21B (R2)

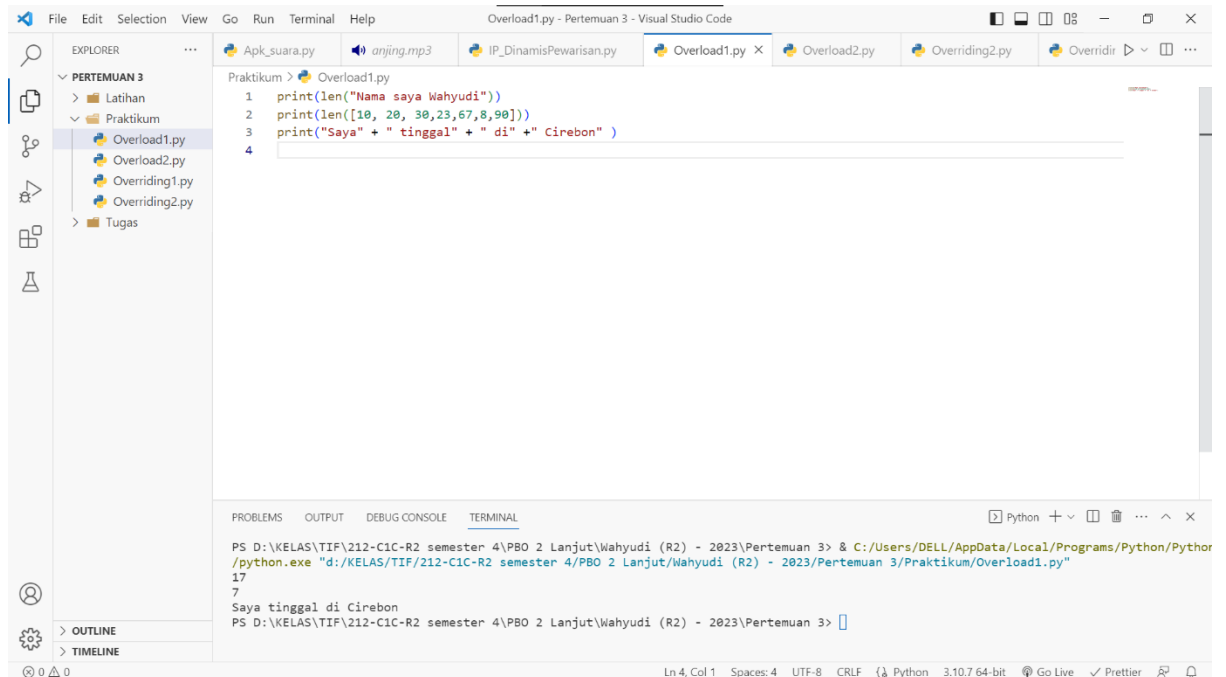
## Praktikum 2

Buatlah masing-masing 2 contoh polymorphism statis (overload) dan polymorphism dinamis (overriding). Beri nama overload1.py, overload2, overriding1.py, overriding2.py

### 1. Overload1.py

```
print(len("Nama saya Wahyudi"))
print(len([10, 20, 30,23,67,8,90]))
print("Saya" + " tinggal" + " di" + " Cirebon" )
```

#### OUTPUT SS



```
Praktikum > Overload1.py
1 print(len("Nama saya Wahyudi"))
2 print(len([10, 20, 30,23,67,8,90]))
3 print("Saya" + " tinggal" + " di" + " Cirebon" )
4

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + v ... ^ x
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3> & C:/Users/DELL/AppData/Local/Programs/Python/Python310/python.exe "d:/KELAS/TIF/212-C1C-R2 semester 4/PBO 2 Lanjut/Wahyudi (R2) - 2023/Pertemuan 3/Praktikum/Overload1.py"
17
7
Saya tinggal di Cirebon
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3> |
```

### 2. Overload2.py

```
class Kambing:
    def __init__(self, nama, usia):
        self.nama = nama
        self.usia = usia

    def info(self):
        print(f"Saya adalah kambing. nama saya {self.nama}. umur saya {self.usia} tahun.")

    def make_sound(self):
        print("Mbeeeek")

class Buaya:
```

```

def __init__(self, nama, usia):
    self.nama = nama
    self.usia = usia

def info(self):
    print(f"Saya adalah Buaya. nama saya {self.nama}. umur saya {self.usia} tahun.")

def make_sound(self):
    print("Hallo dek, udah makan belum?")

kambing = Kambing("Asep", 2)
buaya = Buaya("Riski", 17)

for animal in (kambing, buaya):
    animal.info()
    animal.make_sound()

    print("Laki Laki")

kucingA = Anak("Aldi", 12, "biru")
kucingA.jenisRambut()
kucingA.JenisKelamin()

```

## OUTPUT SS

The screenshot shows the Visual Studio Code interface with a Python file named 'Overload2.py' open. The code defines two classes, 'Kambing' and 'Buaya', each with an 'info' method and a 'make\_sound' method. The 'Kambing' class has attributes 'nama' and 'usia', and the 'Buaya' class has attributes 'nama' and 'usia'. The code also creates instances of these classes and prints their information and sounds.

The terminal output shows the execution of the code, displaying the following messages:

```

PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3> & C:/Users/DELL/AppData/Local/Programs/Python/Python310/python.exe "d:/KELAS/TIF/212-C1C-R2 semester 4/PBO 2 Lanjut/Wahyudi (R2) - 2023/Pertemuan 3/Praktikum/Overload2.py"
Saya adalah kambing. nama saya Asep. umur saya 2 tahun.
Mbeek
Saya adalah Buaya. nama saya Riski. umur saya 17 tahun.
Hallo dek, udah makan belum?
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3>

```

### 3. Overriding1.py

```

class Animal:
    def speak(self):

```

```

        raise NotImplementedError("Subclass must implement this
method")

class Dog(Animal):
    def speak(self):
        return "guhk guhk!"

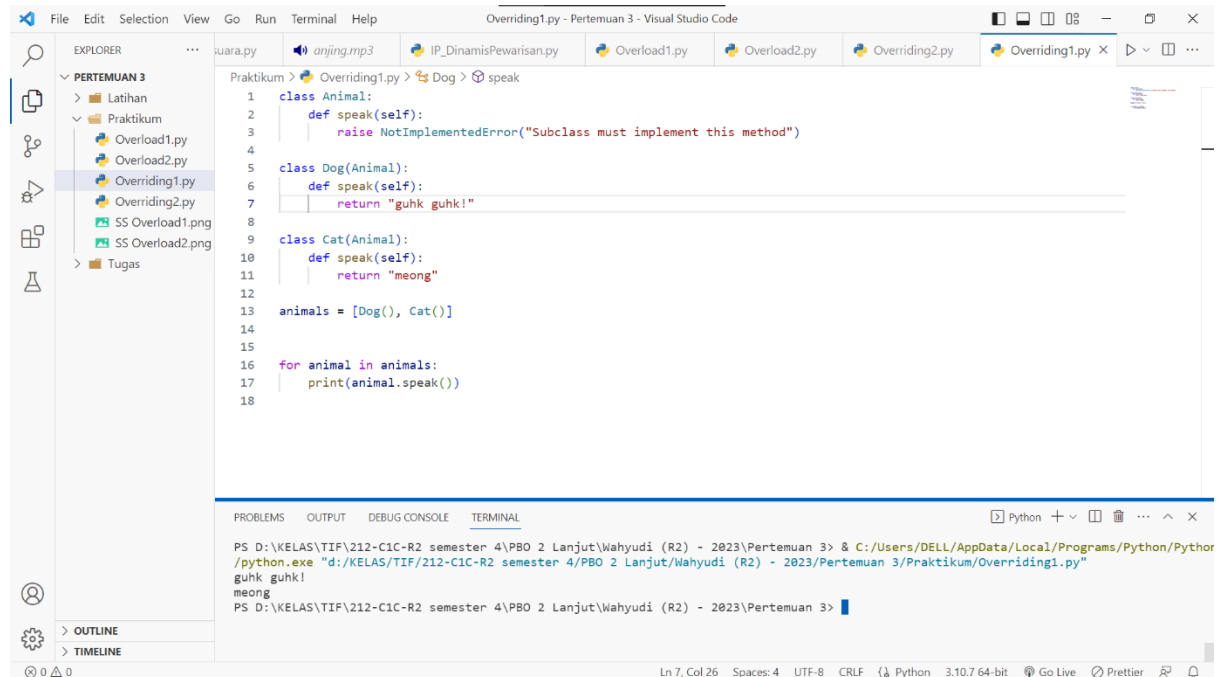
class Cat(Animal):
    def speak(self):
        return "meong"

animals = [Dog(), Cat()]

for animal in animals:
    print(animal.speak())

```

## OUTPUT SS



## 4. Overriding 2.py,

```

class Parent():

    def show(self):
        print("Inside Parent")

class Child(Parent):

    def show(self):

```

```
Parent.show(self)
print("Inside Child")

obj = Child()
obj.show()
```

## OUTPUT SS

The screenshot displays the Visual Studio Code interface with a Python file named `Overriding2.py` open. The file contains the following code:

```
1 class Parent():
2
3     def show(self):
4         print("Inside Parent")
5
6 class Child(Parent):
7
8     def show(self):
9
10        # Calling the parent's class
11        # method
12        Parent.show(self)
13        print("Inside Child")
14
15 # Driver's code
16 obj = Child()
17 obj.show()
18
```

The bottom panel shows the terminal output, which confirms the execution of the code:

```
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3> & C:/Users/DELL/AppData/Local/Programs/Python/Python
/python.exe "d:/KELAS/TIF/212-C1C-R2 semester 4/PBO 2 Lanjut/Wahyudi (R2) - 2023/Pertemuan 3/Praktikum/Overriding2.py"
Inside Parent
Inside Child
PS D:\KELAS\TIF\212-C1C-R2 semester 4\PBO 2 Lanjut\Wahyudi (R2) - 2023\Pertemuan 3>
```