

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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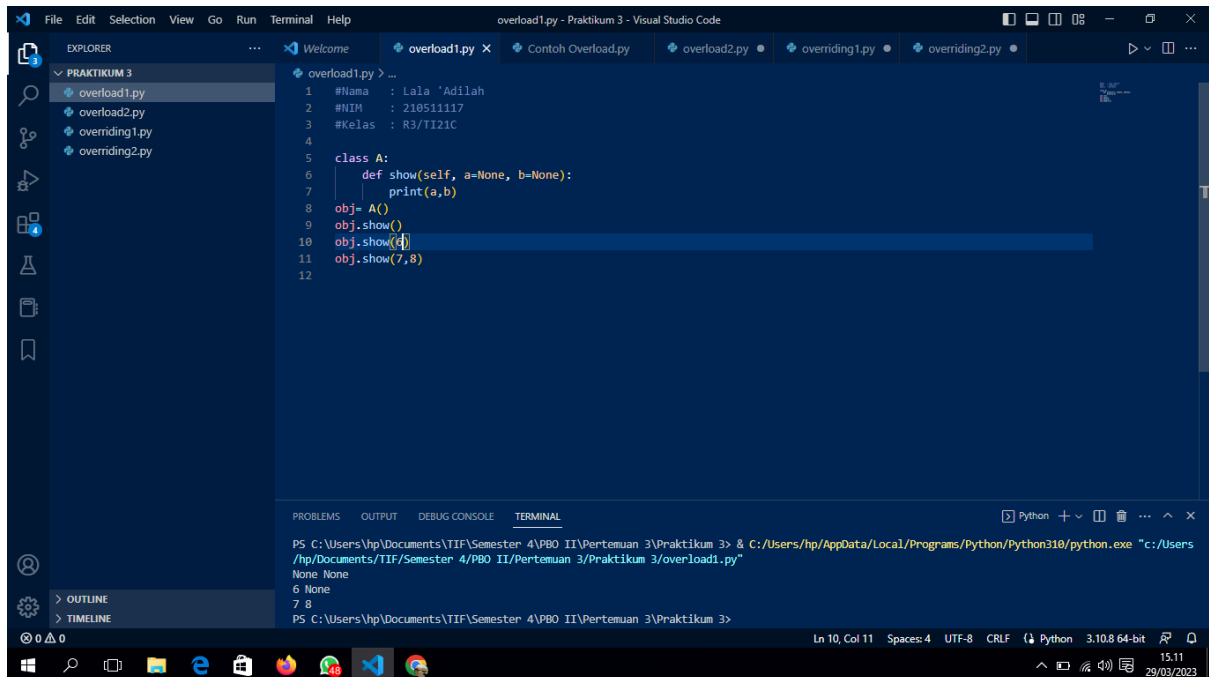
210511117

R3

## Soal Praktikum:

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

### Overload 1:



```
File Edit Selection View Go Run Terminal Help
overload1.py - Praktikum 3 - Visual Studio Code

EXPLORER
PRAKTIKUM 3
  overload1.py
  overload2.py
  overriding1.py
  overriding2.py

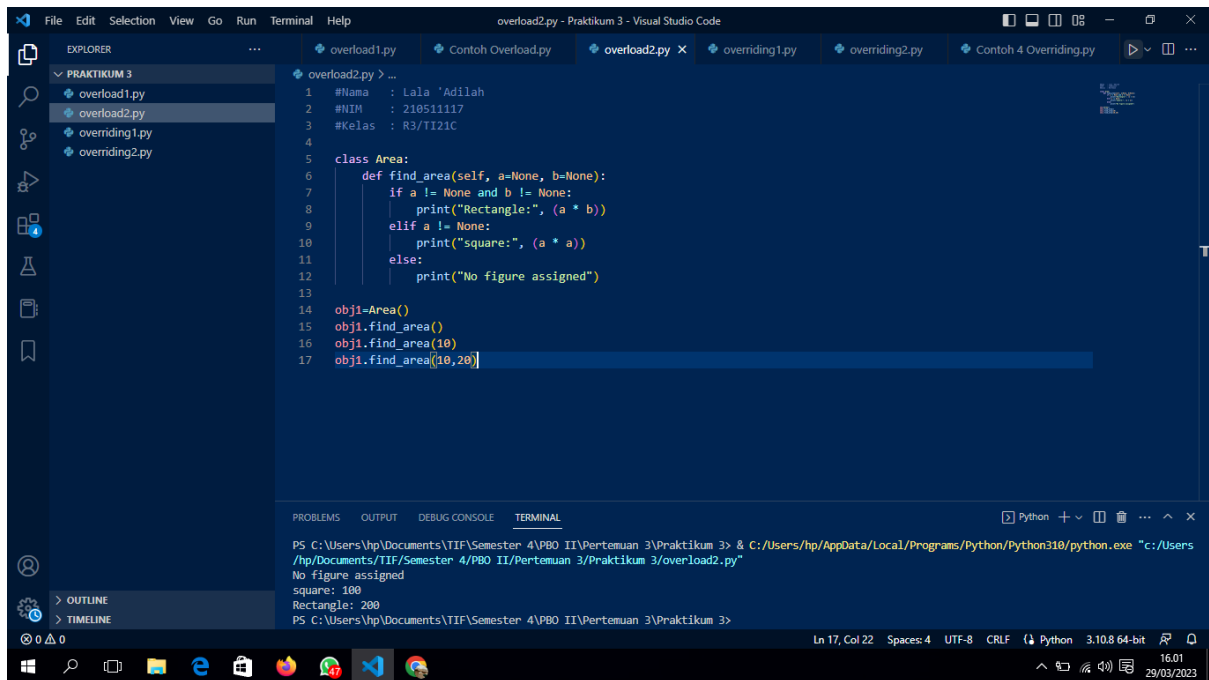
overload1.py
1 #Nama : Lala 'Adilah
2 #NIM : 210511117
3 #Kelas : R3/TI21C
4
5 class A:
6     def show(self, a=None, b=None):
7         print(a,b)
8
9 obj= A()
10 obj.show()
11 obj.show(6)
12 obj.show(7,8)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python
PS C:\Users\hp\Documents\TIF\Semester 4\PB0 II\Pertemuan 3\Praktikum 3> & C:/Users/hp/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/hp/Documents/TIF/Semester 4/PB0 II/Pertemuan 3/Praktikum 3/overload1.py"
None None
6 None
7 8
PS C:\Users\hp\Documents\TIF\Semester 4\PB0 II\Pertemuan 3\Praktikum 3>

Ln 10, Col 11 Spaces: 4 UTF-8 CRLF Python 3.10.8 64-bit 15:11 29/03/2023
```

```
class A:
    def show(self, a=None, b=None):
        print(a,b)
obj= A()
obj.show()
obj.show(6)
obj.show(7,8)
```

### Overload 2:

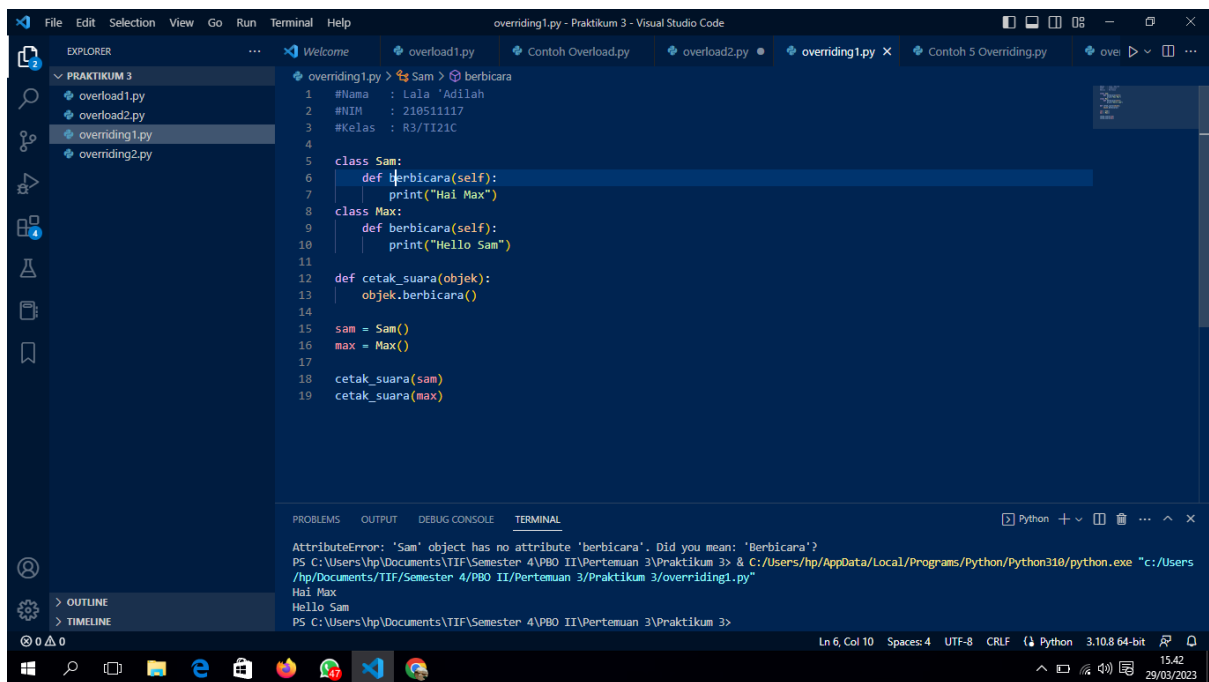


```
#Nama      : Lala 'Adilah'
#NIM       : 210511117
#Kelas    : R3/TI21C
```

```
class Area:
    def find_area(self, a=None, b=None):
        if a != None and b != None:
            print("Rectangle:", (a * b))
        elif a != None:
            print("square:", (a * a))
        else:
            print("No figure assigned")
```

```
obj1=Area()
obj1.find_area()
obj1.find_area(10)
obj1.find_area(10,20)
```

Overriding 1:



```
#Nama    : Lala 'Adilah'
#NIM     : 210511117
#Kelas  : R3/TI21C
```

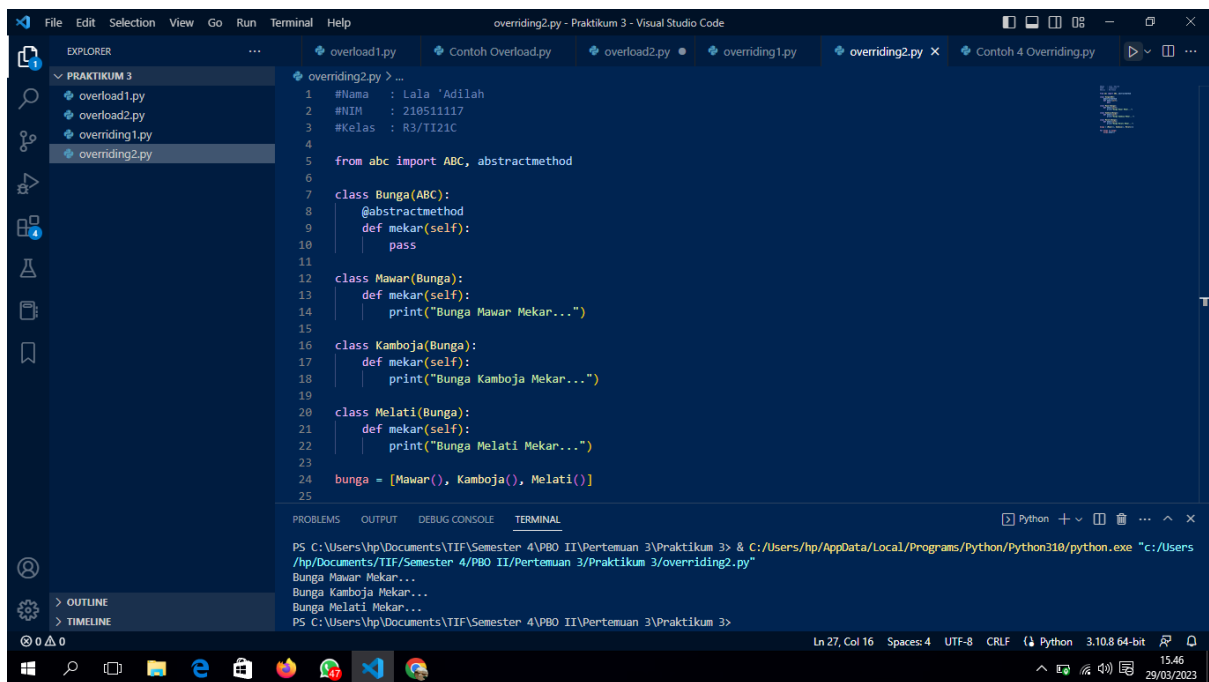
```
class Sam:
    def berbicara(self):
        print("Hai Max")
class Max:
    def berbicara(self):
        print("Hello Sam")
```

```
def cetak_suara(objek):
    objek.berbicara()
```

```
sam = Sam()
max = Max()
```

```
cetak_suara(sam)
cetak_suara(max)
```

Overriding 2:



```
File Edit Selection View Go Run Terminal Help
overriding2.py - Praktikum 3 - Visual Studio Code

EXPLORER
PRAKTIKUM 3
  overriding2.py
  overloa1.py
  overloa2.py
  overding1.py
  overding2.py

overriding2.py > ...
1 #Nama : Lala 'Adilah
2 #NIM : 210511117
3 #Kelas : R3/TI21C
4
5 from abc import ABC, abstractmethod
6
7 class Bunga(ABC):
8     @abstractmethod
9     def mekar(self):
10         pass
11
12 class Mawar(Bunga):
13     def mekar(self):
14         print("Bunga Mawar Mekar...")
15
16 class Kamboja(Bunga):
17     def mekar(self):
18         print("Bunga Kamboja Mekar...")
19
20 class Melati(Bunga):
21     def mekar(self):
22         print("Bunga Melati Mekar...")
23
24 bunga = [Mawar(), Kamboja(), Melati()]
25

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 3\Praktikum 3> & C:/Users/hp/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/hp/Documents/TIF/Semester 4/PBO II/Pertemuan 3/Praktikum 3/overriding2.py"
Bunga Mawar Mekar...
Bunga Kamboja Mekar...
Bunga Melati Mekar...
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 3\Praktikum 3>

Ln 27, Col 16 Spaces: 4 UTF-8 CRLF Python 3.10.8 64-bit 15:46 29/03/2023
```

```
#Nama : Lala 'Adilah
#NIM : 210511117
#Kelas : R3/TI21C
```

```
from abc import ABC, abstractmethod
```

```
class Bunga(ABC):
    @abstractmethod
    def mekar(self):
        pass
```

```
class Mawar(Bunga):
    def mekar(self):
        print("Bunga Mawar Mekar...")
```

```
class Kamboja(Bunga):
    def mekar(self):
        print("Bunga Kamboja Mekar...")
```

```
class Melati(Bunga):
    def mekar(self):
        print("Bunga Melati Mekar...")
```

```
bunga = [Mawar(), Kamboja(), Melati()]
```

```
for bunga in bunga:
    bunga.mekar()
```