

LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

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

Overload1.py

```
print(min(200, 4, 6, 200, 4000, 55))
print(min([2, 3, 4, 5, 0]))
print(min("jerapah"))
```

output

```
PS C:\Users\VACER\Documents\PBO\Praktikum 3> & 'C:\Users\VACER\AppData\Local\Program\Python\Python39\python.exe' 'C:\Users\VACER\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '61153' '--' 'C:\Users\VACER\Documents\PBO\Praktikum 3\overload1.py'
4
0
a
PS C:\Users\VACER\Documents\PBO\Praktikum 3>
```

Overload2.py

```
a = [100, 5, 3]
a.sort()
print(a)

b = ["j", "r", "h"]
b.sort()
print(b)
```

output

```
PS C:\Users\VACER\Documents\PBO\Praktikum 3> cd 'c:\Users\VACER\Documents\PBO\Praktikum 3'; & 'C:\Users\VACER\AppData\Local\Program\Python\Python39\python.exe' 'C:\Users\VACER\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '61249' '--' 'C:\Users\VACER\Documents\PBO\Praktikum 3\overload2.py'
[3, 5, 100]
['h', 'j', 'r']
PS C:\Users\VACER\Documents\PBO\Praktikum 3>
```

In 5, Col 13 Spaces: 4 UTF-8 CRLF Python 3.9.0 64-bit

Overriding1.py

```
class kendaraan:
    def move(self):
        print("kendaraan berjalan")

class pesawat(kendaraan):
    def move(self):
        print("pesawat berjalan terbang")

class kereta(kendaraan):
    def move(self):
        print("kerta berjalan")

K = kendaraan()
P = pesawat()
Ke = kereta()

K.move()
P.move()
Ke.move()
```

Output

```
PS C:\Users\ACER\Documents\PRO\Praktikum 3> c:: cd "C:\Users\ACER\Documents\PRO\Praktikum 3"; & "C:\Users\ACER\AppData\Local\Programs\Python\Python38\python.exe" "C:\Users\ACER\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\python\debugpy\adapter\..\..\debugpy\launcher" "61118" "-o" "C:\Users\ACER\Documents\PRO\Praktikum 3\overriding1.py"
kendaraan berjalan
pesawat berjalan terbang
kerta berjalan
PS C:\Users\ACER\Documents\PRO\Praktikum 3>
```

Overriding2.py

```
from abc import ABC, abstractmethod

class kendaraan(ABC):
    @abstractmethod
    def start(self):
        pass

class pesawat(kendaraan):
    def start(self):
        print("pesawat dinyalakan dengan airplane mode")

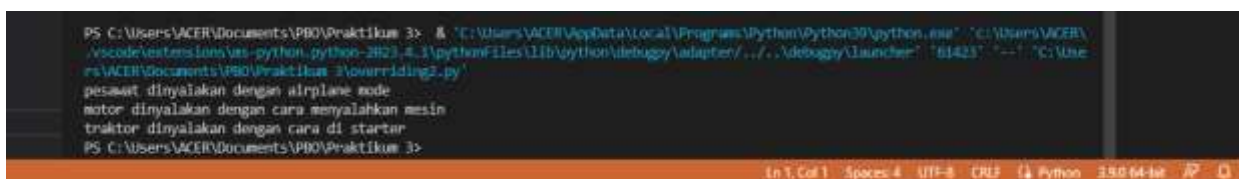
class kereta(kendaraan):
    def start(self):
        print("motor dinyalakan dengan cara menyalahkan mesin")

class traktor(kendaraan):
    def start(self):
        print("traktor dinyalakan dengan cara di starter")

P = pesawat()
K = kereta()
T = traktor()

P.start()
K.start()
T.start()
```

Output



```
PS C:\Users\VACER\Documents\PRO\Praktikum 3> & "C:\Users\VACER\AppData\Local\Programs\Python\Python39\python.exe" "C:\Users\VACER\
.vscode\extensions\ms-python.python.python-2023.4.1\pythonFiles\Lib\python\debugpy\launcher" "61423" "--" "C:\Use
rs\VACER\Documents\PRO\Praktikum 3\overriding2.py"
pesawat dinyalakan dengan airplane mode
motor dinyalakan dengan cara menyalahkan mesin
traktor dinyalakan dengan cara di starter
PS C:\Users\VACER\Documents\PRO\Praktikum 3>
```