



PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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R2(B)

Tugas Praktikum 3:

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

1. Statis(overload)

A. Overload 1

```
class Hewan:
    def suara(self):
        pass
class Serigala(Hewan):
    def suara(self):
        return "Auuuuuuu"
class Singa(Hewan):
    def suara(self):
        return "Arrggghhhhh"
class Sapi(Hewan):
    def suara(self):
        return "Moo"
class Domba(Hewan):
    def suara(self):
        return "Mbeee"
daftar_hewan = [Serigala(), Singa(), Sapi(),
Domba()]
for hewan in daftar hewan:
    print(hewan.suara())
```

```
| Deposite | Deposite
```

B. Overload 2

```
class Ucapan:
    def suara(self):
        pass

class Pagi(Ucapan):
    def suara(self):
        return
    "Selamat Pagi"

class Siang(Ucapan):
    def suara(self):
        return
    "Selamat Siang"

class Sore(Ucapan):
    def suara(self):
```

```
▷ ~ □ ..
      EXPLORER
                                                                  Overload2.py X
     ∨ PRAKTIKUM 3
      Overload1.py
                                 5 class Ucapan:
                                     def suara(self):
                                 9 class Pagi(Ucapan):
                                       def suara(self):
                                13 class Siang(Ucapan):
4
                                         def suara(self):
                                17 class Sore(Ucapan):
                                       def suara(self):
                               21 class Malam(Ucapan):
                              PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                         Windows PowerShell
                              Copyright (C) Microsoft Corporation. All rights reserved.
                               Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                              PS C:\ULHAWAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PBO2\Praktikum 3> & C:\Users\ASUS\AppOata\Local\Programs\Python\Python311\python.exe "c:\MLHAWAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PBO2\Praktikum 3\Overload2.py"

Selamat Pagi
Selamat Siang
                               Selamat Sore
Selamat Malam
                               PS C:\MUHAMAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PBO2\Praktikum 3>
     > OUTLINE
     > TIMELINE
                                                                                                                                  Screen Reader Optimized Ln 4, Col 1 Spaces: 4 UTF-8 CRLF () Python 3.11.0 64-bit 👨 🚨
```

2. Dinamis (Overriding)

A. Overriding 1

```
class Hewan:
    def suara(self):
        pass
class Serigala(Hewan):
    def suara(self):
        return
"Auuuuuuuu"
class Singa(Hewan):
    def suara(self):
        return
"Arghhhhhhhhhh"
class Sapi(Hewan):
    def suara(self):
        return "Moo"
class Domba(Hewan):
    def suara(self):
        return "Mbeee"
def panggil_suara(hewan):
    print(hewan.suara())
Serigala = Serigala()
Singa = Singa()
sapi = Sapi()
domba = Domba()
panggil_suara(<u>Serigala</u>)
panggil_suara(Singa)
panggil_suara(sapi)
panggil_suara(domba)
```

```
PROTECT

PRO
```

B. Overriding 2

```
class Ucapan:
    def suara(self):
        pass

class Pagi(Ucapan):
    def suara(self):
        return "Selamat Pagi"

class Siang(Ucapan):
    def suara(self):
        return "Selamat Siang"

class Sore(Ucapan):
    def suara(self):
        return "Selamat Sore"
```

```
class Malam(Ucapan):
    def suara(self):
        return "Selamat Malam"

def panggil_suara(ucapan):
    print(ucapan.suara())

pagi = Pagi()
siang = Siang()
sore = Sore()
malam = Malam()

panggil_suara(pagi)
panggil_suara(siang)
panggil_suara(sore)
panggil_suara(malam)
```

```
··· 📢 Get Started 🕏 Overload1.py 💆 Overload2.py 💆 Overidding1.py ● 💆 Overiding2.py 🗙
     ∨ PRAKTIKUM 3
     Overidding1.png
      Overidding1.py
     Overload1.png
      Overload1.py
                                5 class Ucapan:
                                    def suara(self):
      Overload2.png
                                    class Pagi(Ucapan):
                                13 class Siang(Ucapan):
                                    class Sore(Ucapan):
                               21 class Malam(Ucapan):
                                                                                                                                                                                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                              Windows PowerShell
                              Copyright (C) Microsoft Corporation. All rights reserved.
                              Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                              PS C:\PUMPAYAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PB02\Praktikum 3> & C:\Users\ASUS\AppData\Local\Programs\Python\Python311\python.exe "c:\MLHAYAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PB02\Praktikum 3\(\)Overriding2.py"
                              Selamat Pagi
Selamat Siang
                              Selamat Sore
Selamat Malam
                              PS C:\MUHAMAD MUCHIBBULLOH\Pemograman Berorientasi Obyek\PBO2\Praktikum 3>
    > OUTLINE
8
     > TIMELINE
                                                                                                                                Screen Reader Optimized Ln 4, Col 1 Spaces: 4 UTF-8 CRLF (→ Python 3.11.0 64-bit 👂 🚨
```