

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

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## Praktikum

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

### Overload1 :

```
#Nama : Andrian Shevchenko
#NIM : 210511071
#Kelas : R2

print(len("Andrian Shevchenko"))
print(len((1,2,3,4,5,6,7,10)))
print(len(("210511071")))
```

### Output

```
File Edit Selection View Go Run Terminal Help
Overload1.py - PBO_S4_SHV - Visual Studio Code

EXPLORER
PBO_S4_SHV
  > Pertemuan 2
  > Pertemuan 3
  > screenshot p3
  CTH_Overload1.py
  CTH_Overload2.py
  CTH_Overload3.py
  CTH_Overload4.py
  CTH_Overriding.py
  Dinamis_Abstract.py
  Dinamis.py
  DinamisDuckTyping.py
  Overload1.py
  Runtime.py
Praktikum 1
  celcius_oop.py
  celcius_pro.py
  KonversiTemperatur.py
  percobaan.py
  percobaan2.py
  percobaan3.py
  percobaan4.py
  > screenshot pertemuan 1
  Contoh1.py
  Contoh2.py
  Contoh3.py
  Contoh4.py
  > OUTLINE
  > TIMELINE

Pertemuan 3 > Overload1.py
1 #Nama : Andrian Shevchenko
2 #NIM : 210511071
3 #Kelas : R2
4 print(len("Andrian Shevchenko"))
5 print(len((1,2,3,4,5,6,7,10)))
6 print(len(("210511071")))
7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
PS C:\Users\SEVA\Documents\PBO_S4_SHV> & C:/Users/SEVA/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/SEVA/Documents/PBO_S4_SHV/Pertemuan 3/Overload1.py"
18
8
9
PS C:\Users\SEVA\Documents\PBO_S4_SHV>
```

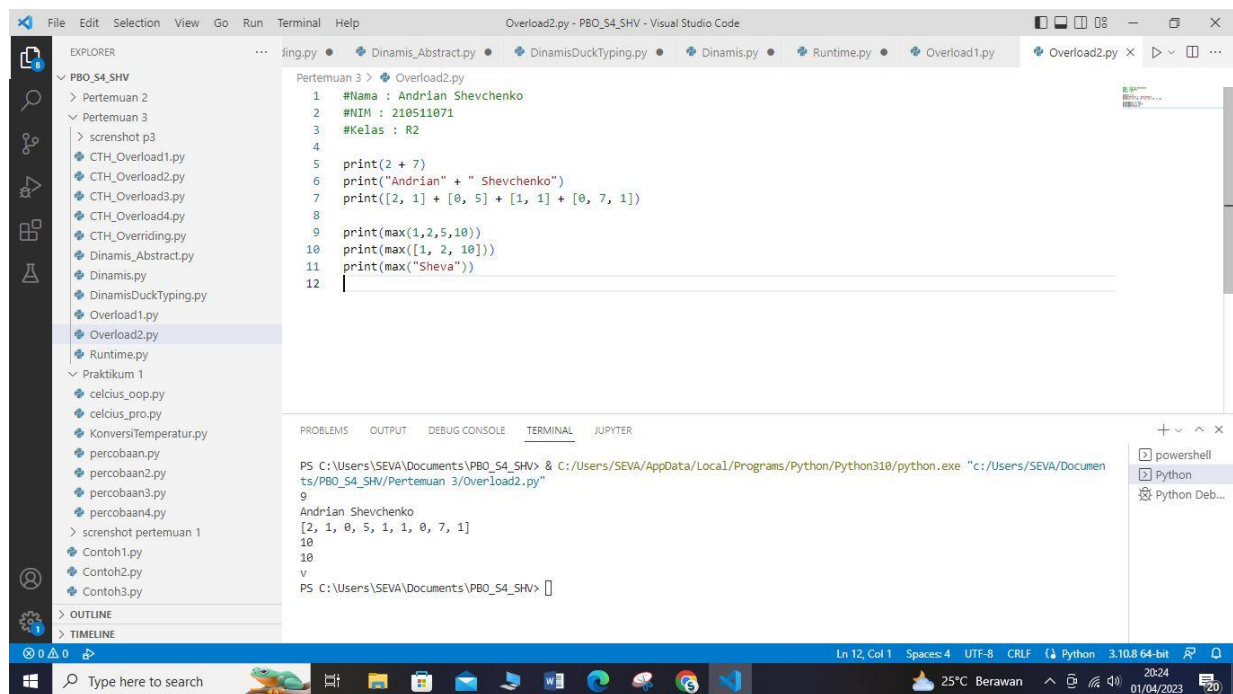
## Overload2 :

```
#Nama : Andrian Shevchenko
#NIM : 210511071
#Kelas : R2

print(2 + 7)
print("Andrian" + " Shevchenko")
print([2, 1] + [0, 5] + [1, 1] + [0, 7, 1])

print(max(1,2,5,10))
print(max([1, 2, 10]))
print(max("Sheva"))
```

## Output



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with folders 'PBO\_S4\_SHV' and 'Praktikum 1'. The file 'Overload2.py' is selected. The main editor window shows the following Python code:

```
1 #Nama : Andrian Shevchenko
2 #NIM : 210511071
3 #Kelas : R2
4
5 print(2 + 7)
6 print("Andrian" + " Shevchenko")
7 print([2, 1] + [0, 5] + [1, 1] + [0, 7, 1])
8
9 print(max(1,2,5,10))
10 print(max([1, 2, 10]))
11 print(max("Sheva"))
12
```

The TERMINAL panel at the bottom shows the execution output:

```
PS C:\Users\SEVA\Documents\PBO_S4_SHV> & C:/Users/SEVA/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/SEVA/Documents/PBO_S4_SHV/Pertemuan 3/Overload2.py"
9
Andrian Shevchenko
[2, 1, 0, 5, 1, 1, 0, 7, 1]
10
10
v
PS C:\Users\SEVA\Documents\PBO_S4_SHV>
```

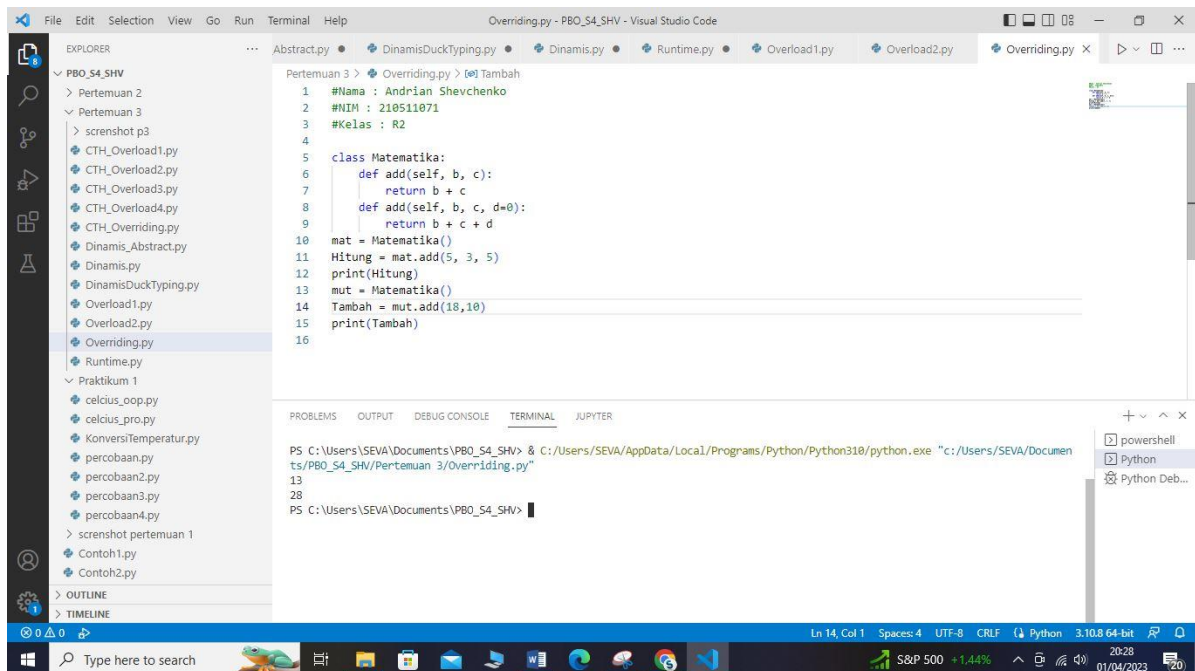
The status bar at the bottom indicates the current line is 12, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, Python 3.10.8 64-bit interpreter, and a file size of 310 B.

## Overriding1 :

```
#Nama : Andrian Shevchenko
#NIM : 210511071
#Kelas : R2

class Matematika:
    def add(self, b, c):
        return b + c
    def add(self, b, c, d=0):
        return b + c + d
mat = Matematika()
Hitung = mat.add(5, 3, 5)
print(Hitung)
mut = Matematika()
Tambah = mut.add(18,10)
print(Tambah)
```

## Output



## Overriding2 :

```
#Nama : Andrian Shevchenko
#NIM : 210511071
#Kelas : R2

class Matematika:
    def add(self, b, c):
        return b * c
    def add(self, b, c, d=0):
        return b * c * d
mat = Matematika()
Hitung = mat.add(5, 3, 5)
print(Hitung)
mut = Matematika()
Kali = mut.add(18,2,3)
print(Kali)
```

## Output

