

LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

Nama : MUHAMMAD GIFANI

NIM : 210511051

Kelas : TIF21B (R2)

Praktikum

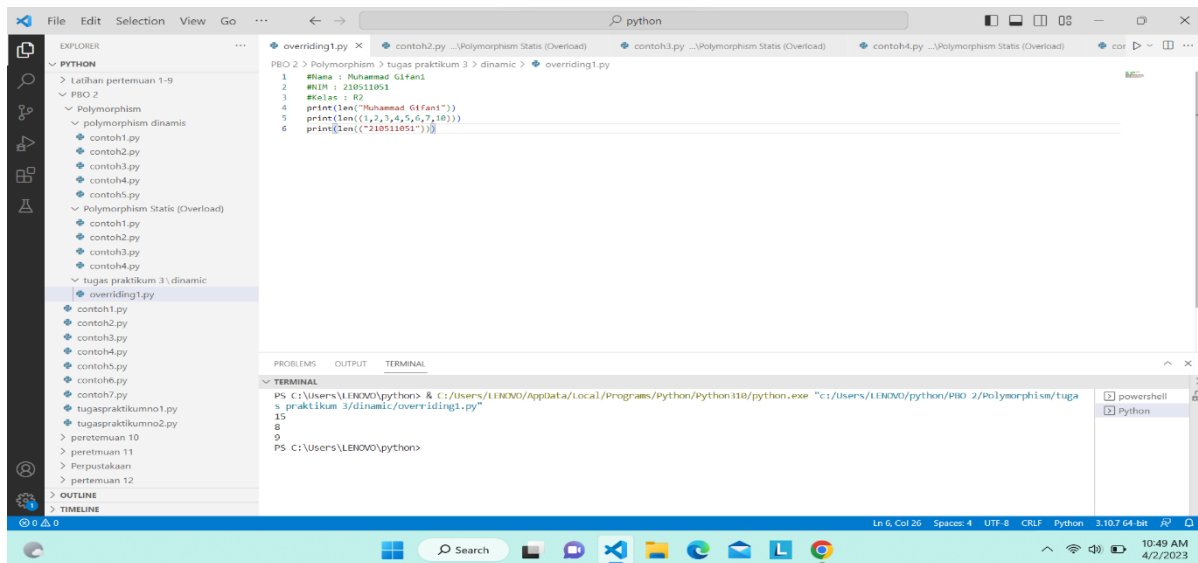
Buatlah masing-masing 2 contoh polymorphism statis (overload) dan polymorphism dinamis (overriding).

Beri nama overload1.py, overload2, overriding1.py, overriding2.py :

Overload 1

```
#Nama : Muhammad Gifani
#NIM : 210511051
#Kelas : R2
print(len("Muhammad Gifani"))
print(len((1,2,3,4,5,6,7,10)))
print(len(("210511051")))
```

Output



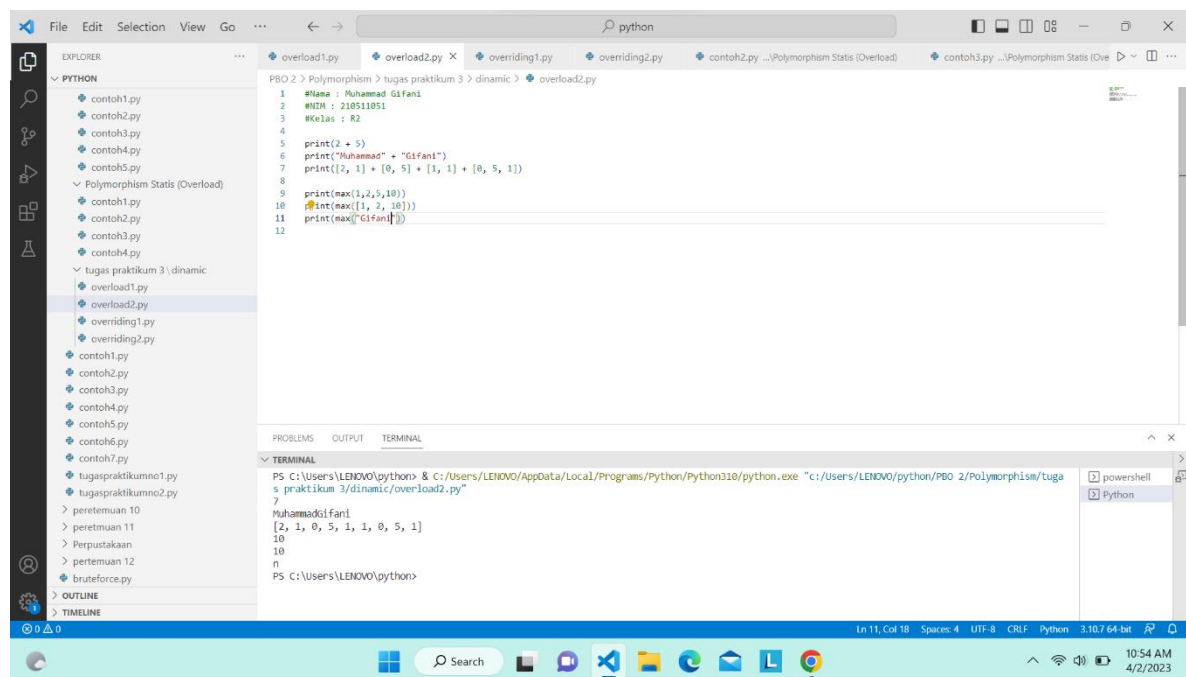
Overload 2

```
#Nama : Muhammad Gifani
#NIM : 210511051
#Kelas : R2

print(2 + 5)
print("Muhammad" + "Gifani")
print([2, 1] + [0, 5] + [1, 1] + [0, 5, 1])

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

Output



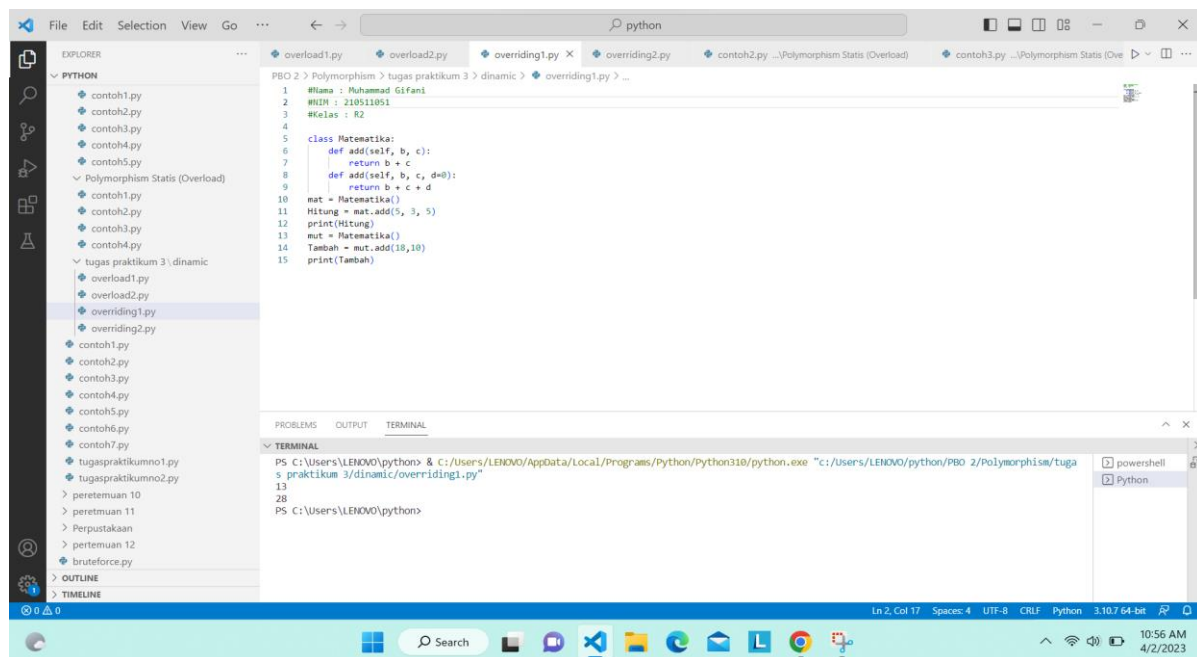
The screenshot shows a Visual Studio Code editor window with a file named 'overload2.py' open. The code in the file is identical to the one in the 'Overload 2' section. The terminal at the bottom shows the output of the program, which is the same as the 'Output' section. The terminal also shows the command prompt and the file path.

Overriding 1

```
#Nama : Muhammad Gifani
#NIM : 210511051
#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



```
1 #Nama : Muhammad Gifani
2 #NIM : 210511051
3 #Kelas : R2
4
5 class Matematika:
6     def add(self, b, c):
7         return b * c
8     def add(self, b, c, d=0):
9         return b * c * d
10
11 mat = Matematika()
12 Hitung = mat.add(5, 3, 5)
13 print(Hitung)
14 mut = Matematika()
15 Tambah = mut.add(18,10)
16 print(Tambah)
```

PROBLEMS OUTPUT TERMINAL

PS C:\Users\LENOVO\python> & C:\Users\LENOVO\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/LENOVO/python/PBO 2/Polymorphism/tugas praktikum 3/dinamic/overriding1.py"

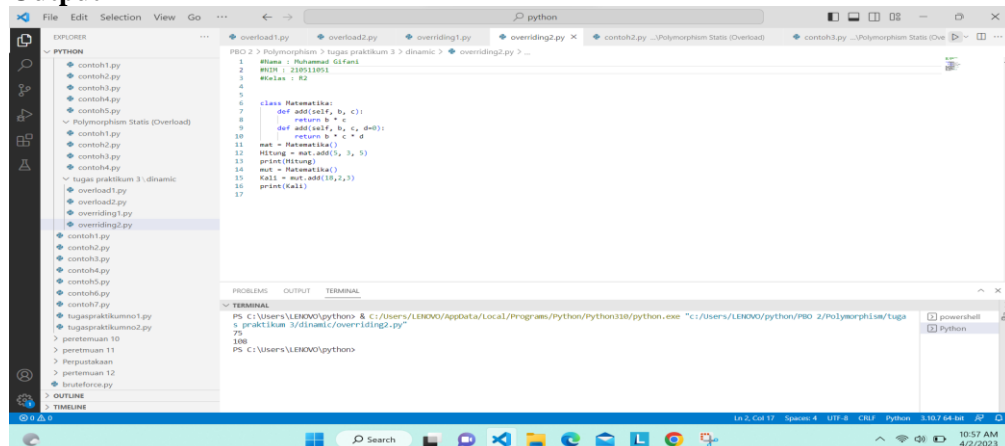
13
28
PS C:\Users\LENOVO\python>

Overriding 2

```
#Nama : Muhammad Gifani
#NIM : 210511051
#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



```
1 #Nama : Muhammad Gifani
2 #NIM : 210511051
3 #Kelas : R2
4
5 class Matematika:
6     def add(self, b, c):
7         return b * c
8     def add(self, b, c, d=0):
9         return b * c * d
10
11 mat = Matematika()
12 Hitung = mat.add(5, 3, 5)
13 print(Hitung)
14 mut = Matematika()
15 Kali = mut.add(18,2,3)
16 print(Kali)
```

PROBLEMS OUTPUT TERMINAL

PS C:\Users\LENOVO\python> & C:\Users\LENOVO\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/LENOVO/python/PBO 2/Polymorphism/tugas praktikum 3/dinamic/overriding2.py"

75
108
PS C:\Users\LENOVO\python>